

## DIN CEN ISO/TR 20173



ICS 25.160.20

Ersatz für  
DIN SPEC 1116  
(DIN-Fachbericht ISO/TR  
20173):2010-03

**Schweißen –  
Werkstoffgruppeneinteilung –  
Amerikanische Werkstoffe (ISO/TR 20173:2018);  
Deutsche Fassung CEN ISO/TR 20173:2018**

Welding –  
Grouping systems for materials –  
American materials (ISO/TR 20173:2018);  
German version CEN ISO/TR 20173:2018

Soudage –  
Systèmes de groupement des matériaux –  
Matériaux américains (ISO/TR 20173:2018);  
Version allemande CEN ISO/TR 20173:2018

Gesamtumfang 130 Seiten

DIN-Normenausschuss Schweißen und verwandte Verfahren (NAS)

## Nationales Vorwort

Dieses Dokument (CEN ISO/TR 20173:2018) wurde vom Technischen Komitee ISO/TC 121 „Welding and allied processes“ in Zusammenarbeit mit dem Technischen Komitee CEN/TC 121 „Schweißen und verwandte Verfahren“ erarbeitet, dessen Sekretariat von DIN (Deutschland) gehalten wird.

Das zuständige nationale Normungsgremium ist der Arbeitsausschuss NA 092-00-04 AA „Qualitätssicherung beim Schweißen (DVS AG Q 2)“ im DIN-Normenausschuss Schweißen und verwandte Verfahren (NAS).

Für die in diesem Dokument zitierten Dokumente wird im Folgenden auf die entsprechenden deutschen Dokumente hingewiesen:

ISO/TR 15608:2017      siehe      DIN CEN ISO/TR 15608:2020-07

Aktuelle Informationen zu diesem Dokument können über die Internetseiten von DIN ([www.din.de](http://www.din.de)) durch eine Suche nach der Dokumentennummer aufgerufen werden.

### Änderungen

Gegenüber DIN SPEC 1116 (DIN-Fachbericht ISO/TR 20173):2010-03 wurden folgende Änderungen vorgenommen:

- a) redaktionelle Überarbeitung der Norm.

### Frühere Ausgaben

DIN-Fachbericht CEN ISO/TR 20173: 2006-09  
DIN SPEC 1116 (DIN-Fachbericht ISO/TR 20173): 2010-03

## **Nationaler Anhang NA** (informativ)

### **Literaturhinweise**

DIN CEN ISO/TR 15608:2020-07, *Schweißen — Richtlinien für eine Gruppeneinteilung von metallischen Werkstoffen (ISO/TR 15608:2017)*; Deutsche Fassung CEN ISO/TR 15608:2017

– Leerseite –

Deutsche Fassung  
Schweißen —  
Werkstoffgruppeneinteilung —  
Amerikanische Werkstoffe (ISO/TR 20173:2018)

Welding —  
Grouping systems for materials —  
American materials (ISO/TR 20173:2018)

Soudage —  
Systèmes de groupement des matériaux —  
Matériaux américains (ISO/TR 20173:2018)

Dieser Technische Report wurde vom CEN am 25. Juli 2018 angenommen. Er wurde vom Technischen Komitee CEN/TC 121 erstellt.

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EUROPÄISCHES KOMITEE FÜR NORMUNG  
EUROPEAN COMMITTEE FOR STANDARDIZATION  
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Inhalt

|                                                      | Seite |
|------------------------------------------------------|-------|
| Europäisches Vorwort . . . . .                       | 3     |
| Vorwort . . . . .                                    | 4     |
| 1 Anwendungsbereich . . . . .                        | 5     |
| 2 Normative Verweisungen . . . . .                   | 5     |
| 3 Begriffe . . . . .                                 | 5     |
| 4 Amerikanische Werkstoffgruppeneinteilung . . . . . | 5     |
| Literaturhinweise . . . . .                          | 126   |

Tabellen

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| Tabelle 1 — Amerikanische Gruppeneinteilung für Eisenwerkstoffe . . . . .      | 7  |
| Tabelle 2 — Amerikanische Gruppeneinteilung für Nichteisenwerkstoffe . . . . . | 83 |

## **Europäisches Vorwort**

Dieses Dokument (CEN ISO/TR 20173:2018) wurde vom Technischen Komitee ISO/TC 44 „Welding and allied processes“ in Zusammenarbeit mit dem Technischen Komitee CEN/TC 121 „Schweißen und verwandte Verfahren“ erarbeitet, dessen Sekretariat von DIN gehalten wird.

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Dieses Dokument ersetzt CEN ISO/TR 20173:2009.

### **Anerkennungsnotiz**

Der Text von ISO/TR 20173:2018 wurde von CEN als CEN ISO/TR 20173:2018 ohne irgendeine Abänderung genehmigt.

## Vorwort

ISO (die Internationale Organisation für Normung) ist eine weltweite Vereinigung nationaler Normungsinstitute (ISO-Mitgliedsorganisationen). Die Erstellung von Internationalen Normen wird üblicherweise von Technischen Komitees von ISO durchgeführt. Jede Mitgliedsorganisation, die Interesse an einem Thema hat, für welches ein Technisches Komitee gegründet wurde, hat das Recht, in diesem Komitee vertreten zu sein. Internationale staatliche und nichtstaatliche Organisationen, die in engem Kontakt mit ISO stehen, nehmen ebenfalls an der Arbeit teil. ISO arbeitet bei allen elektrotechnischen Normungsthemen eng mit der Internationalen Elektrotechnischen Kommission (IEC) zusammen.

Die Verfahren, die bei der Entwicklung dieses Dokuments angewendet wurden und die für die weitere Pflege vorgesehen sind, werden in den ISO/IEC-Direktiven, Teil 1 beschrieben. Es sollten insbesondere die unterschiedlichen Annahmekriterien für die verschiedenen ISO-Dokumentenarten beachtet werden. Dieses Dokument wurde in Übereinstimmung mit den Gestaltungsregeln der ISO/IEC-Direktiven, Teil 2 erarbeitet (siehe [www.iso.org/directives](http://www.iso.org/directives)).

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Jeder in diesem Dokument verwendete Handelsname dient nur zur Unterrichtung der Anwender und bedeutet keine Anerkennung.

Für eine Erläuterung des freiwilligen Charakters von Normen, der Bedeutung ISO-spezifischer Begriffe und Ausdrücke in Bezug auf Konformitätsbewertungen sowie Informationen darüber, wie ISO die Grundsätze der Welthandelsorganisation (WTO, en: World Trade Organization) hinsichtlich technischer Handelshemmnisse (TBT, en: Technical Barriers to Trade) berücksichtigt, siehe [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

Dieses Dokument wurde vom Technischen Komitee ISO/TC 44, *Welding and allied processes*, Unterkomitee SC 10, *Quality management in the field of welding*, erarbeitet.

Rückmeldungen, Fragen oder Anfragen zu offiziellen Auslegungen der Inhalte dieses Dokuments sollten über das jeweilige nationale Normungsinstitut an das Sekretariat des ISO/TC 44/SC 10 gerichtet werden. Eine vollständige Auflistung dieser Institute ist unter [www.iso.org/members.html](http://www.iso.org/members.html) zu finden. Offizielle Auslegungen, sofern vorhanden, sind verfügbar unter: <https://committee.iso.org/sites/tc44/home/interpretation.html>.

Diese dritte Ausgabe ersetzt die zweite Ausgabe (ISO/TR 20173:2009), die technisch überarbeitet wurde. Die wesentlichen Änderungen im Vergleich zur Vorgängerausgabe sind folgende:

- Tabelle 1 und Tabelle 2 wurden vollständig überarbeitet;
- das Layout wurde redaktionell überarbeitet.

## 1 Anwendungsbereich

Dieses Dokument enthält eine amerikanische Gruppeneinteilung von Werkstoffen zum Schweißen, gegliedert nach der Gruppeneinteilung von ISO/TR 15608. Es enthält auch mehrere kanadische, australische und neuseeländische Werkstoffe, die in Nordamerika häufig verwendet werden.

Es kann auch für andere Zwecke wie Wärmebehandlung, Umformen und zerstörungsfreie Prüfung angewendet werden. Die Stahlsorten sind in Übereinstimmung mit der Gruppeneinteilung von ISO/TR 15608:2017, Tabelle 1, angegeben.

Dieses Dokument enthält eine Gruppeneinteilung für die nachstehend genannten genormten Werkstoffe:

- Stahl;
- Aluminium und seine Legierungen;
- Nickel und seine Legierungen;
- Kupfer und seine Legierungen;
- Titan und seine Legierungen;
- Zirkonium und seine Legierungen;
- Gusseisen.

## 2 Normative Verweisungen

Es gibt keine normativen Verweisungen in diesem Dokument.

## 3 Begriffe

In diesem Dokument werden keine Begriffe aufgeführt.

ISO und IEC stellen terminologische Datenbanken für die Verwendung in der Normung unter den folgenden Adressen bereit:

- ISO Online Browsing Platform: verfügbar unter <https://www.iso.org/obp>
- IEC Electropedia: verfügbar unter <http://www.electropedia.org/>

## 4 Amerikanische Werkstoffgruppeneinteilung

Tabelle 1 und Tabelle 2 enthalten die amerikanischen Gruppeneinteilungen für Eisenwerkstoffe bzw. Nichteisenwerkstoffe.

Es sind Werkstoffe der folgenden Organisationen aufgeführt:

- AAR (Association of American Railroads);
- ABS (American Bureau of Shipping);
- API (American Petroleum Institute);
- AS/NZS (Australia, New Zealand Standards);
- ASTM (ASTM International, ursprünglich bekannt als American Society for Testing of Materials);

- ASME (American Society of Mechanical Engineers);
- CSA (Canadian Standards Association);
- MSS (Manufacturers Standardization Society);
- NACE (NACE International, ursprünglich bekannt als National Association of Corrosion Engineers).

**Tabelle 1 — Amerikanische Gruppeneinteilung für Eisenwerkstoffe**

| Norm | Bezeichnung | Nr.    | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|------|-------------|--------|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| AAR  | AAR         | TC-128 |        | B                           | 10C                      | 1              | 11.1                        | C-Mn-Si             |
| AAR  | AAR         | M-201  |        | A                           | 1                        | 1              | 11.1                        | C-Mn-Si             |
| AAR  | AAR         | M-201  |        | B                           | 1                        | 2              | 11.1                        | C-Mn-Si             |
| AAR  | AAR         | M-201  |        | B+                          | 1                        | 3              | 11.1                        | C-Mn-Si             |
| AAR  | AAR         | M-201  |        | C                           | 1                        | 4              | 11.1                        | C-Mn-Si             |
| ABS  | ABS         | ABS    |        | CS                          | 1                        | 1              | 1.1                         | C-Mn-Si             |
| ABS  | ABS         | ABS    |        | DS                          | 1                        | 1              | 1.1                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K01801 | E                           | 1                        | 1              | 1.1                         | C-Si                |
| ABS  | ABS         | ABS    | K02101 | D                           | 1                        | 1              | 1.1                         | C-Si                |
| ABS  | ABS         | ABS    | K02102 | B                           | 1                        | 1              | 1.1                         | C                   |
| ABS  | ABS         | ABS    | K02300 | A                           | 1                        | 1              | 1.1                         | C                   |
| ABS  | ABS         | ABS    | K11846 | AH32                        | 1                        | 1              | 1.2                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11846 | DH32                        | 1                        | 1              | 1.2                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11846 | EH32                        | 1                        | 1              | 1.2                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11846 | FH32                        | 1                        | 1              | 1.2                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11852 | AH36                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11852 | DH36                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11852 | EH36                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11852 | FH36                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11857 | AH40                        | 1                        | 2              | 1.3                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11857 | DH40                        | 1                        | 2              | 1.3                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11857 | EH40                        | 1                        | 2              | 1.3                         | C-Mn-Si             |
| ABS  | ABS         | ABS    | K11857 | FH40                        | 1                        | 2              | 1.3                         | C-Mn-Si             |
| API  | API         | 2H     |        | 42                          | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 2H     |        | 50                          | 1                        | 2              | 1.2                         | C-Mn                |

Tabelle 1 (fortgesetzt)

| Norm | Bezeichnung | Nr.  | UNS | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|------|-------------|------|-----|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| API  | API         | 2MT1 |     | 50                          | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 2W   |     | 50                          | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 2W   |     | 60                          | 1                        | 2              | 1.3                         | C-Mn                |
| API  | API         | 2Y   |     | 42                          | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 2Y   |     | 50                          | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 2Y   |     | 50T                         | 1                        | 2              | 1.2                         | C-Mn                |
| API  | API         | 2Y   |     | 60                          | 1                        | 2              | 1.3                         | C-Mn                |
| API  | API         | 5L   |     | A                           | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | A25                         | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | A25, Cl. I                  | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | A25, Cl. II                 | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | A25P                        | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | B                           | 1                        | 1              | 11.1                        | C-Mn                |
| API  | API         | 5L   |     | BM                          | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BMO                         | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BMS                         | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BN                          | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BNO                         | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BNS                         | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BQ                          | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BQO                         | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BQS                         | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | BR                          | 1                        | 1              | 1.1                         | C-Mn                |
| API  | API         | 5L   |     | X42                         | 1                        | 1              | 11.1                        | C-Mn                |
| API  | API         | 5L   |     | X42M                        | 1                        | 1              | 1.2                         | C-Mn                |

**Tabelle 1** (fortgesetzt)

| Norm | Bezeichnung | Nr. | UNS | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|------|-------------|-----|-----|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| API  | API         | 5L  |     | X42MO                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X42MS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X42N                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X42NO                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X42NS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X42Q                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X42QO                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X42QS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X42R                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46                         | 1                        | 1              | 11.1                        | C-Mn                |
| API  | API         | 5L  |     | X46M                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46MO                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46MS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46N                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46NO                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46NS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46Q                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46QO                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X46QS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X52                         | 1                        | 1              | 11.1                        | C-Mn                |
| API  | API         | 5L  |     | X52M                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X52MO                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X52MS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X52N                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X52NO                       | 1                        | 1              | 1.2                         | C-Mn                |

Tabelle 1 (fortgesetzt)

| Norm | Bezeichnung | Nr. | UNS | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|------|-------------|-----|-----|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| API  | API         | 5L  |     | X52NS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X52Q                        | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X52Q0                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X52QS                       | 1                        | 1              | 1.2                         | C-Mn                |
| API  | API         | 5L  |     | X56                         | 1                        | 2              | 11.1                        | C-Mn                |
| API  | API         | 5L  |     | X56M                        | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X56M0                       | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X56MS                       | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X56N                        | 1                        | 2              | 1.3                         | C-Mn                |
| API  | API         | 5L  |     | X56Q                        | 1                        | 2              | 3.1                         | C-Mn                |
| API  | API         | 5L  |     | X56Q0                       | 1                        | 2              | 3.1                         | C-Mn                |
| API  | API         | 5L  |     | X56QS                       | 1                        | 2              | 3.1                         | C-Mn                |
| API  | API         | 5L  |     | X60                         | 1                        | 2              | 11.1                        | C-Mn                |
| API  | API         | 5L  |     | X60M                        | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X60M0                       | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X60MS                       | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X60N                        | 1                        | 2              | 1.3                         | C-Mn                |
| API  | API         | 5L  |     | X60Q                        | 1                        | 2              | 3.1                         | C-Mn                |
| API  | API         | 5L  |     | X60Q0                       | 1                        | 2              | 3.1                         | C-Mn                |
| API  | API         | 5L  |     | X60QS                       | 1                        | 2              | 3.1                         | C-Mn                |
| API  | API         | 5L  |     | X65                         | 1                        | 2              | 11.1                        | C-Mn                |
| API  | API         | 5L  |     | X65M                        | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X65M0                       | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X65MS                       | 1                        | 2              | 2.1                         | C-Mn                |
| API  | API         | 5L  |     | X65Q                        | 1                        | 2              | 3.1                         | C-Mn                |

**Tabelle 1** (fortgesetzt)

| Norm    | Bezeichnung | Nr.  | UNS | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|---------|-------------|------|-----|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| API     | API         | 5L   |     | X65Q0                       | 1                        | 2              | 3.1                         | C-Mn                |
| API     | API         | 5L   |     | X65QS                       | 1                        | 2              | 3.1                         | C-Mn                |
| API     | API         | 5L   |     | X70                         | 1                        | 3              | 11.1                        | C-Mn                |
| API     | API         | 5L   |     | X70M                        | 1                        | 3              | 2.2                         | C-Mn                |
| API     | API         | 5L   |     | X70MO                       | 1                        | 3              | 2.2                         | C-Mn                |
| API     | API         | 5L   |     | X70MS                       | 1                        | 3              | 2.2                         | C-Mn                |
| API     | API         | 5L   |     | X70Q                        | 1                        | 3              | 3.1                         | C-Mn                |
| API     | API         | 5L   |     | X70Q0                       | 1                        | 3              | 3.1                         | C-Mn                |
| API     | API         | 5L   |     | X70QS                       | 1                        | 3              | 3.1                         | C-Mn                |
| API     | API         | 5L   |     | X80M                        | 1                        | 4              | 2.2                         | C-Mn                |
| API     | API         | 5L   |     | X80MO                       | 1                        | 4              | 2.2                         | C-Mn                |
| API     | API         | 5L   |     | X80Q                        | 1                        | 4              | 3.1                         | C-Mn                |
| API     | API         | 5L   |     | X80Q0                       | 1                        | 4              | 3.1                         | C-Mn                |
| API     | API         | 5LS  |     | X46                         | 1                        | 1              | 11.1                        | C-Mn                |
| AS/ASTM | AS          | 945  |     | 50                          | 1                        | 2              | 1.2                         | C-Mn-Si             |
| AS/ASTM | AS          | 945  |     | 65                          | 1                        | 2              | 1.3                         | C-Mn-Si-Ti          |
| AS      | AS          | 1548 |     | 5-490                       | 1                        | 2              | 1.2                         | C                   |
| AS      | AS          | 1548 |     | 7-430                       | 1                        | 1              | 1.2                         | C                   |
| AS      | AS          | 1548 |     | 7-460                       | 1                        | 1              | 1.2                         | C                   |
| AS      | AS          | 1548 |     | 7-490                       | 1                        | 2              | 1.2                         | C                   |
| AS      | AS          | 1548 |     | PT430                       | 1                        | 1              | 1.2                         | C                   |
| AS      | AS          | 1548 |     | PT430                       | 1                        | 1              | 1.1                         | C                   |
| AS      | AS          | 1548 |     | PT460                       | 1                        | 1              | 1.1                         | C                   |
| AS      | AS          | 1548 |     | PT460                       | 1                        | 1              | 1.2                         | C                   |
| AS      | AS          | 1548 |     | PT490                       | 1                        | 2              | 1.2                         | C                   |

Tabelle 1 (fortgesetzt)

| Norm   | Bezeichnung | Nr.  | UNS | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|--------|-------------|------|-----|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| AS     | AS          | 1548 |     | PT490                       | 1                        | 2              | 1.2                         | C                   |
| AS     | AS          | 1548 |     | PT540T                      | 1                        | 2              | 1.3                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | HA200                       | 1                        | 1              | 1.1                         | C                   |
| AS/NZS | AS/NZS      | 1594 |     | HA250                       | 1                        | 1              | 1.1                         | C                   |
| AS/NZS | AS/NZS      | 1594 |     | HA300                       | 1                        | 1              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | HA300/1                     | 1                        | 1              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | HA350                       | 1                        | 1              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | HA400                       | 1                        | 1              | 2.1                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | HU250                       | 1                        | 1              | 1.1                         | C                   |
| AS/NZS | AS/NZS      | 1594 |     | HU300                       | 1                        | 1              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | HU300/1                     | 1                        | 1              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | HW350                       | 1                        | 1              | 1.4                         | C-Mn-Cr-Ni-Cu       |
| AS/NZS | AS/NZS      | 1594 |     | XF300                       | 1                        | 1              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | XF400                       | 1                        | 1              | 2.1                         | C-Mn                |
| AS/NZS | AS/NZS      | 1594 |     | XF500                       | 1                        | 3              | 2.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 3597 |     | 500                         |                          |                | 3.1                         | C-Mn-1Cr.25Mo       |
| AS/NZS | AS/NZS      | 3597 |     | 600                         |                          |                | 3.1                         | C-Mn-1Cr.25Mo       |
| AS/NZS | AS/NZS      | 3597 |     | 700                         |                          |                | 3.1                         | C-Mn-1Cr.25Mo       |
| AS/NZS | AS/NZS      | 3597 |     | 700PV                       | 11B                      |                | 3.1                         | C-Mn-1Cr.25Mo       |
| AS/NZS | AS/NZS      | 3678 |     | 200                         | 1                        | 1              | 1.1                         | C-Mn                |
| AS/NZS | AS/NZS      | 3678 |     | 250                         | 1                        | 1              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 3678 |     | 250L15                      | 1                        | 1              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 3678 |     | 300                         | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 3678 |     | 300L15                      | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS | AS/NZS      | 3678 |     | 350                         | 1                        | 2              | 1.2                         | C-Mn                |

**Tabelle 1** (fortgesetzt)

| Norm      | Bezeichnung | Nr.    | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|--------|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| AS/NZS    | AS/NZS      | 3678   |        | 350L15                      | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3678   |        | 400                         | 1                        | 2              | 1.3                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3678   |        | 400L15                      | 1                        | 2              | 1.3                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3678   |        | 450                         | 1                        | 2              | 1.3                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3678   |        | 450L15                      | 1                        | 2              | 1.3                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3678   |        | WR350                       | 3                        | 1              | 1.4                         | C-Mn-Cr-Ni-Cu       |
| AS/NZS    | AS/NZS      | 3678   |        | WR350L0                     | 3                        | 1              | 1.4                         | C-Mn-Cr-Ni-Cu       |
| AS/NZS    | AS/NZS      | 3679.1 |        | 250                         | 1                        | 1              | 1.1                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 250L0                       | 1                        | 1              | 1.1                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 250L15                      | 1                        | 1              | 1.1                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 300                         | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 300L0                       | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 300L15                      | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 350                         | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 350L0                       | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 350L15                      | 1                        | 2              | 1.2                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 400                         | 1                        | 2              | 1.3                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 400L0                       | 1                        | 2              | 1.3                         | C-Mn                |
| AS/NZS    | AS/NZS      | 3679.1 |        | 400L15                      | 1                        | 2              | 1.3                         | C-Mn                |
| ASTM      | A           | 27     | J02501 | 70-40                       | 1                        | 2              | 1.1                         | C                   |
| ASTM      | A           | 27     | J03000 | 60-30                       | 1                        | 1              | 11.1                        | C                   |
| ASTM      | A           | 27     | J03000 | U-60-30                     | 1                        | 1              | 1.1                         | C                   |
| ASTM      | A           | 27     | J03001 | 65-35                       | 1                        | 1              | 11.1                        | C                   |
| ASTM      | A           | 27     | J03501 | 70-36                       | 1                        | 2              | 11.1                        | C                   |
| ASTM/ASME | A/SA        | 31     | K03100 | B                           | 1                        | 1              | 11.1                        | C                   |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 36  |        |                             | 1                        | 1              | 11.1                        | C-Mn-Si             |
| ASTM/ASME | A/SA        | 36  |        |                             | 1                        | 1              | 11.1                        | C-Mn-Si             |
| ASTM/ASME | A/SA        | 36  | K02595 |                             | 1                        | 1              | 11.1                        | C-Mn-Si             |
| ASTM/ASME | A/SA        | 36  | K02596 |                             | 1                        | 1              | 11.1                        | C-Mn-Si             |
| ASTM/ASME | A/SA        | 36  | K02597 |                             | 1                        | 1              | 11.1                        | C-Mn-Si             |
| ASTM/ASME | A/SA        | 36  | K02598 |                             | 1                        | 1              | 1.1                         | C-Mn-Si             |
| ASTM/ASME | A/SA        | 36  | K02599 |                             | 1                        | 1              | 1.1                         | C-Mn-Si             |
| ASTM/ASME | A/SA        | 36  | K02600 |                             | 1                        | 1              | 11.1                        | C-Mn-Si             |
| ASTM/ASME | A/SA        | 53  | K02504 | E, A                        | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 53  | K02504 | S, A                        | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 53  | K03005 | E, B                        | 1                        | 1              | 11.1                        | C-Mn                |
| ASTM/ASME | A/SA        | 53  | K03005 | F                           | 1                        | 1              | 11.1                        | C                   |
| ASTM/ASME | A/SA        | 53  | K03005 | S, B                        | 1                        | 1              | 11.1                        | C-Mn                |
| ASTM/ASME | A/SA        | 105 | K03504 |                             | 1                        | 2              | 11.1                        | C                   |
| ASTM/ASME | A/SA        | 106 | K02501 | A                           | 1                        | 1              | 1.1                         | C-Si                |
| ASTM/ASME | A/SA        | 106 | K03006 | B                           | 1                        | 1              | 11.1                        | C-Mn-Si             |
| ASTM/ASME | A/SA        | 106 | K03501 | C                           | 1                        | 2              | 11.1                        | C-Mn-Si             |
| ASTM      | A           | 108 | G10150 | 1015 CW                     | 1                        | 1              | 1.1                         | C                   |
| ASTM      | A           | 108 | G10180 | 1018 CW                     | 1                        | 1              | 1.1                         | C                   |
| ASTM      | A           | 108 | G10200 | 1020 CW                     | 1                        | 1              | 1.1                         | C                   |
| ASTM      | A           | 108 | G86200 | 8620 CW                     | 3                        | 3              | 4.1                         | 0.5Ni-0.5Cr-Mo      |
| ASTM      | A           | 131 |        | A                           | 1                        | 1              | 1.1                         | C                   |
| ASTM      | A           | 131 |        | AH32                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | AH36                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | B                           | 1                        | 1              | 1.1                         | C-Mn-Si             |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM      | A           | 131 |        | CS                          | 1                        | 1              | 1.1                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | D                           | 1                        | 1              | 1.1                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | DH32                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | DH36                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | DS                          | 1                        | 1              | 1.1                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | E                           | 1                        | 2              | 1.1                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | EH32                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ASTM      | A           | 131 |        | EH36                        | 1                        | 2              | 1.2                         | C-Mn-Si             |
| ASTM/ASME | A/SA        | 134 | K01400 | SA283, A                    | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 134 | K01700 | SA285, A                    | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 134 | K01702 | SA283, B                    | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 134 | K02200 | SA285, B                    | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 134 | K02401 | SA283, C                    | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 134 | K02599 | SA36                        | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 134 | K02702 | SA283, D                    | 1                        | 1              | 11.1                        | C                   |
| ASTM/ASME | A/SA        | 134 | K02801 | SA285, C                    | 1                        | 1              | 11.1                        | C                   |
| ASTM/ASME | A/SA        | 135 | K02509 | A                           | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 135 | K03018 | B                           | 1                        | 1              | 11.1                        | C                   |
| ASTM      | A           | 139 | K02508 | A                           | 1                        | 1              | 1.1                         | C                   |
| ASTM      | A           | 139 | K03003 | B                           | 1                        | 1              | 11.1                        | C                   |
| ASTM      | A           | 139 | K03004 | C                           | 1                        | 1              | 11.1                        | C                   |
| ASTM      | A           | 139 | K03010 | D                           | 1                        | 1              | 11.1                        | C                   |
| ASTM      | A           | 139 | K03012 | E                           | 1                        | 1              | 11.1                        | C                   |
| ASTM      | A           | 161 | K11522 | T1                          | 3                        | 1              | 1.1                         | C-0.5Mo             |
| ASTM      | A           | 167 | S30215 | 302B                        | 8                        | 1              | 8.1                         | 18Cr-8Ni-2Si        |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-klasse | ASME/AWS P oder M Nr. | Gruppen Nr. | ISO/TR 15608:2017 Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-------------------------|-----------------------|-------------|--------------------------|---------------------|
| ASTM      | A           | 167 | S30800 | 308                     | 8                     | 2           | 8.2                      | 20Cr-10Ni           |
| ASTM      | A           | 167 | S30900 | 309                     | 8                     | 2           | 8.2                      | 23Cr-12Ni           |
| ASTM      | A           | 167 | S31000 | 310                     | 8                     | 2           | 8.2                      | 25Cr-20Ni           |
| ASTM/ASME | A/SA        | 178 | K01200 | A                       | 1                     | 1           | 1.1                      | C                   |
| ASTM/ASME | A/SA        | 178 | K02709 | D                       | 1                     | 2           | 11.1                     | C-Mn-Si             |
| ASTM/ASME | A/SA        | 178 | K03503 | C                       | 1                     | 1           | 11.1                     | C                   |
| ASTM/ASME | A/SA        | 179 | K01200 |                         | 1                     | 1           | 1.1                      | C                   |
| ASTM/ASME | A/SA        | 181 | K03502 | Cl. 60                  | 1                     | 1           | 11.1                     | C-Si                |
| ASTM/ASME | A/SA        | 181 | K03502 | Cl. 70                  | 1                     | 2           | 11.1                     | C-Si                |
| ASTM/ASME | A/SA        | 182 | K11562 | F12, Cl.1               | 4                     | 1           | 5.1                      | 1Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 182 | K11564 | F12, Cl.2               | 4                     | 1           | 5.1                      | 1Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 182 | K11572 | F11, Cl.2               | 4                     | 1           | 5.1                      | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 182 | K11572 | F11, Cl.3               | 4                     | 1           | 5.1                      | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 182 | K11597 | F11, Cl.1               | 4                     | 1           | 5.1                      | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 182 | K12122 | F2                      | 3                     | 2           | 4.2                      | 0.5Cr-0.5Mo         |
| ASTM/ASME | A/SA        | 182 | K12822 | F1                      | 3                     | 2           | 1.1                      | C-0.5Mo             |
| ASTM/ASME | A/SA        | 182 | K21590 | F22, Cl.1               | 5A                    | 1           | 5.2                      | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 182 | K21590 | F22, Cl.3               | 5A                    | 1           | 5.2                      | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 182 | K22035 | FR                      | 9A                    | 1           | 9.1                      | 2Ni-1Cu             |
| ASTM/ASME | A/SA        | 182 | K31390 | F3VCb                   | 5C                    | 1           | 6.2                      | 3Cr-1Mo-0.25V-Cb-Ca |
| ASTM/ASME | A/SA        | 182 | K31545 | F21                     | 5A                    | 1           | 5.2                      | 3Cr-1Mo             |
| ASTM/ASME | A/SA        | 182 | K31830 | F3V                     | 5C                    | 1           | 6.2                      | 3Cr-1Mo-V-Ti-B      |
| ASTM/ASME | A/SA        | 182 | K31835 | F22V                    | 5C                    | 1           | 6.2                      | 2.25Cr-1Mo-V        |
| ASTM/ASME | A/SA        | 182 | K41545 | F5                      | 5B                    | 1           | 5.3                      | 5Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 182 | K42544 | F5a                     | 5B                    | 1           | 5.3                      | 5Cr-0.5Mo           |

**Tabelle 1** (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung     |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|-------------------------|
| ASTM/ASME | A/SA        | 182 | K90901 | F91                         | 15E                      | 1              | 6.4                         | 9Cr-1Mo-V               |
| ASTM/ASME | A/SA        | 182 | K90941 | F9                          | 5B                       | 1              | 5.4                         | 9Cr-1Mo                 |
| ASTM/ASME | A/SA        | 182 | K92460 | F92                         | 15E                      | 1              | 6.4                         | 9Cr-2W                  |
| ASTM/ASME | A/SA        | 182 | N08367 |                             | 45                       |                | 8.2                         | 46Fe-24Ni-21Cr-6Mo-Cu-N |
| ASTM/ASME | A/SA        | 182 | N08904 | F904L                       | 45                       |                | 8.2                         | 44Fe-25Ni-21Cr-Mo       |
| ASTM/ASME | A/SA        | 182 | S20910 | FXM-19                      | 8                        | 3              | 8.3                         | 22Cr-13Ni-5Mn           |
| ASTM/ASME | A/SA        | 182 | S21904 | FXM-11                      | 8                        | 3              | 8.3                         | 21Cr-6Ni-9Mn            |
| ASTM/ASME | A/SA        | 182 | S30400 | F304                        | 8                        | 1              | 8.1                         | 18Cr-8Ni                |
| ASTM/ASME | A/SA        | 182 | S30403 | F304L                       | 8                        | 1              | 8.1                         | 18Cr-8Ni                |
| ASTM/ASME | A/SA        | 182 | S30409 | F304H                       | 8                        | 1              | 8.1                         | 18Cr-8Ni                |
| ASTM/ASME | A/SA        | 182 | S30451 | F304N                       | 8                        | 1              | 8.1                         | 18Cr-8Ni-N              |
| ASTM/ASME | A/SA        | 182 | S30453 | F304LN                      | 8                        | 1              | 8.1                         | 18Cr-8Ni-N              |
| ASTM/ASME | A/SA        | 182 | S30600 | F46                         | 8                        | 1              | 8.1                         | 18Cr-15Ni-4Si           |
| ASTM/ASME | A/SA        | 182 | S30815 | F45                         | 8                        | 2              | 8.2                         | 21Cr-11Ni-N             |
| ASTM/ASME | A/SA        | 182 | S31000 | F310                        | 8                        | 2              | 8.2                         | 25Cr-20Ni               |
| ASTM/ASME | A/SA        | 182 | S31050 | F310MoLN                    | 8                        | 2              | 8.2                         | 25Cr-22Ni-2Mo-N         |
| ASTM/ASME | A/SA        | 182 | S31200 | F50                         | 10H                      | 1              | 10.2                        | 25Cr-6Ni-Mo-N           |
| ASTM/ASME | A/SA        | 182 | S31254 | F44                         | 8                        | 4              | 8.2                         | 20Cr-18Ni-6Mo           |
| ASTM/ASME | A/SA        | 182 | S31600 | F316                        | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo           |
| ASTM/ASME | A/SA        | 182 | S31603 | F316L                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo           |
| ASTM/ASME | A/SA        | 182 | S31609 | F316H                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo           |
| ASTM/ASME | A/SA        | 182 | S31651 | F316N                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N         |
| ASTM/ASME | A/SA        | 182 | S31653 | F316LN                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N         |
| ASTM/ASME | A/SA        | 182 | S31700 | F317                        | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo           |
| ASTM/ASME | A/SA        | 182 | S31703 | F317L                       | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo           |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung   |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|-----------------------|
| ASTM/ASME | A/SA        | 182 | S31803 | F51                         | 10H                      | 1              | 10.1                        | 22Cr-5Ni-3Mo-N        |
| ASTM/ASME | A/SA        | 182 | S32053 |                             | 8                        | 4              | 8.2                         | 23Cr-25Ni-5.5Mo-N     |
| ASTM/ASME | A/SA        | 182 | S32100 | F321                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti          |
| ASTM/ASME | A/SA        | 182 | S32109 | F321H                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti          |
| ASTM/ASME | A/SA        | 182 | S32202 |                             | 10H                      | 1              | 10.1                        | 22Cr-2Ni-Mo-N         |
| ASTM/ASME | A/SA        | 182 | S32205 | F60                         | 10H                      | 1              | 10.1                        | 22Cr-5Ni-3Mo-N        |
| ASTM/ASME | A/SA        | 182 | S32550 | F61                         | 10H                      | 1              | 10.2                        | 25Cr-5Ni-3Mo-2Cu      |
| ASTM/ASME | A/SA        | 182 | S32750 | F53                         | 10H                      | 1              | 10.2                        | 25Cr-7Ni-4Mo-N        |
| ASTM/ASME | A/SA        | 182 | S32760 | F55                         | 10H                      | 1              | 10.1                        | 25Cr-8Ni-3Mo-W-Cu-N   |
| ASTM/ASME | A/SA        | 182 | S33100 | F10                         | 8                        | 2              | 8.1                         | 20Ni-8Cr              |
| ASTM/ASME | A/SA        | 182 | S34565 | F49                         | 8                        | 4              | 8.3                         | 24Cr-17Ni-6Mn-4.5Mo-N |
| ASTM/ASME | A/SA        | 182 | S34700 | F347                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 182 | S34709 | F347H                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 182 | S34800 | F348                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 182 | S34809 | F348H                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 182 | S39274 | F54                         | 10H                      | 1              | 10.2                        | 25Cr-7Ni-3Mo-2W-Cu-N  |
| ASTM/ASME | A/SA        | 182 | S41000 | F6a, Cl.1                   | 6                        | 1              | 7.2                         | 13Cr                  |
| ASTM/ASME | A/SA        | 182 | S41000 | F6a, Cl.2                   | 6                        | 3              | 7.2                         | 13Cr                  |
| ASTM/ASME | A/SA        | 182 | S41000 | F6a, Cl.3                   | 6                        | 3              | 7.2                         | 13Cr                  |
| ASTM/ASME | A/SA        | 182 | S41000 | F6a, Cl.4                   | 6                        | 3              | 7.2                         | 13Cr                  |
| ASTM/ASME | A/SA        | 182 | S41026 | F6b                         | 6                        | 3              | 7.2                         | 13Cr-0.5Mo            |
| ASTM/ASME | A/SA        | 182 | S41500 | F6NM                        | 6                        | 4              | 7.2                         | 13Cr-4.5Ni-Mo         |
| ASTM/ASME | A/SA        | 182 | S42900 | F429                        | 6                        | 2              | 7.2                         | 15Cr                  |
| ASTM/ASME | A/SA        | 182 | S43000 | F430                        | 7                        | 2              | 7.1                         | 17Cr                  |
| ASTM/ASME | A/SA        | 182 | S44627 | FXM-27Cb                    | 10I                      | 1              | 7.1                         | 27Cr-1Mo              |

**Tabelle 1** (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 192 | K01201 |                             | 1                        | 1              | 1.1                         | C-Si                |
| ASTM      | A           | 199 | K11597 | T11                         | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM      | A           | 199 | K21590 | T22                         | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo          |
| ASTM      | A           | 199 | K41545 | T5                          | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo           |
| ASTM      | A           | 199 | K81590 | T9                          | 5B                       | 1              | 5.4                         | 9Cr-1Mo             |
| ASTM      | A           | 199 | K90901 | T91                         | 15E                      | 1              | 6.4                         | 9Cr-1Mo-V           |
| ASTM      | A           | 200 | K21590 | T22                         | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 202 | K11742 | A                           | 4                        | 1              | 4.2                         | 0.5Cr-1.25Mn-Si     |
| ASTM/ASME | A/SA        | 202 | K12542 | B                           | 4                        | 1              | 4.2                         | 0.5Cr-1.25Mn-Si     |
| ASTM/ASME | A/SA        | 203 |        | F                           | 9B                       | 1              | 9.2                         | 3.5Ni               |
| ASTM/ASME | A/SA        | 203 | K21703 | A                           | 9A                       | 1              | 9.1                         | 2.5Ni               |
| ASTM/ASME | A/SA        | 203 | K22103 | B                           | 9A                       | 1              | 9.1                         | 2.5Ni               |
| ASTM/ASME | A/SA        | 203 | K31718 | D                           | 9B                       | 1              | 9.2                         | 3.5Ni               |
| ASTM/ASME | A/SA        | 203 | K32018 | E                           | 9B                       | 1              | 9.2                         | 3.5Ni               |
| ASTM/ASME | A/SA        | 204 | K11820 | A                           | 3                        | 1              | 1.1                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 204 | K12020 | B                           | 3                        | 2              | 1.1                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 204 | K12320 | C                           | 3                        | 2              | 1.2                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 209 | K11422 | T1b                         | 3                        | 1              | 1.1                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 209 | K11522 | T1                          | 3                        | 1              | 1.1                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 209 | K12023 | T1a                         | 3                        | 1              | 1.1                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 210 | K02707 | A-1                         | 1                        | 1              | 11.1                        | C-Si                |
| ASTM/ASME | A/SA        | 210 | K03501 | C                           | 1                        | 2              | 11.1                        | C-Mn-Si             |
| ASTM      | A           | 211 | K02502 | A570-30                     | 1                        | 1              | 1.1                         | C                   |
| ASTM      | A           | 211 | K02502 | A570-33                     | 1                        | 1              | 1.1                         | C                   |
| ASTM      | A           | 211 | K02502 | A570-40                     | 1                        | 1              | 1.1                         | C                   |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 213 | K11547 | T2                          | 3                        | 1              | 4.2                         | 0.5Cr-0.5Mo         |
| ASTM/ASME | A/SA        | 213 | K11562 | T12                         | 4                        | 1              | 5.1                         | 1Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 213 | K11597 | T11                         | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 213 | K12047 | T17                         | 10B                      | 1              | 4.1                         | 1Cr-V               |
| ASTM/ASME | A/SA        | 213 | K21590 | T22                         | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 213 | K31545 | T21                         | 5A                       | 1              | 5.2                         | 3Cr-1Mo             |
| ASTM/ASME | A/SA        | 213 | K41245 | T5c                         | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo-Ti        |
| ASTM/ASME | A/SA        | 213 | K41545 | T5                          | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 213 | K51545 | T5b                         | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo-Si        |
| ASTM/ASME | A/SA        | 213 | K90901 | T91                         | 15E                      | 1              | 6.4                         | 9Cr-1Mo-V           |
| ASTM/ASME | A/SA        | 213 | K90941 | T9                          | 5B                       | 1              | 5.4                         | 9Cr-1Mo             |
| ASTM/ASME | A/SA        | 213 | K92460 | T92                         | 15E                      | 1              | 6.4                         | 9Cr-2W              |
| ASTM/ASME | A/SA        | 213 | S20100 | TP201                       | 8                        | 3              | 8.3                         | 17Cr-4Ni-6Mn        |
| ASTM/ASME | A/SA        | 213 | S20200 | TP202                       | 8                        | 3              | 8.3                         | 18Cr-5Ni-9Mn        |
| ASTM/ASME | A/SA        | 213 | S20910 | XM-19                       | 8                        | 3              | 8.3                         | 22Cr-13Ni-5Mn       |
| ASTM/ASME | A/SA        | 213 | S30400 | TP304                       | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 213 | S30403 | TP304L                      | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 213 | S30409 | TP304H                      | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 213 | S30432 |                             | 8                        | 1              | 8.1                         | 18Cr-9Ni-3Cu-Cb-N   |
| ASTM/ASME | A/SA        | 213 | S30451 | TP304N                      | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 213 | S30453 | TP304LN                     | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 213 | S30815 | S30815                      | 8                        | 2              | 8.2                         | 21Cr-11Ni-N         |
| ASTM/ASME | A/SA        | 213 | S30908 | TP309S                      | 8                        | 2              | 8.2                         | 23Cr-12Ni           |
| ASTM/ASME | A/SA        | 213 | S30909 | TP309H                      | 8                        | 2              | 8.2                         | 23Cr-12Ni           |
| ASTM/ASME | A/SA        | 213 | S30940 | TP309Cb                     | 8                        | 2              | 8.2                         | 23Cr-12Ni-Cb        |

**Tabelle 1** (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung   |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|-----------------------|
| ASTM/ASME | A/SA        | 213 | S30941 | TP309HCb                    | 8                        | 2              | 8.2                         | 23Cr-12Ni-Cb          |
| ASTM/ASME | A/SA        | 213 | S31000 | 310                         | 8                        | 2              | 8.2                         | 25Cr-20Ni             |
| ASTM/ASME | A/SA        | 213 | S31008 | TP310S                      | 8                        | 2              | 8.2                         | 25Cr-20Ni             |
| ASTM/ASME | A/SA        | 213 | S31009 | TP310H                      | 8                        | 2              | 8.2                         | 25Cr-20Ni             |
| ASTM/ASME | A/SA        | 213 | S31040 | TP310Cb                     | 8                        | 2              | 8.2                         | 25Cr-20Ni-Cb          |
| ASTM/ASME | A/SA        | 213 | S31041 | TP310HCb                    | 8                        | 2              | 8.2                         | 25Cr-20Ni-Cb          |
| ASTM/ASME | A/SA        | 213 | S31042 | TP310HCbN                   | 8                        | 3              | 8.2                         | 25Cr-20Ni-Cb-N        |
| ASTM/ASME | A/SA        | 213 | S31050 | TP310MoLN                   | 8                        | 2              | 8.2                         | 25Cr-22Ni-2Mo-N       |
| ASTM/ASME | A/SA        | 213 | S31600 | TP316                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo         |
| ASTM/ASME | A/SA        | 213 | S31603 | TP316L                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo         |
| ASTM/ASME | A/SA        | 213 | S31609 | TP316H                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo         |
| ASTM/ASME | A/SA        | 213 | S31635 | TP316Ti                     | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-Ti      |
| ASTM/ASME | A/SA        | 213 | S31651 | TP316N                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N       |
| ASTM/ASME | A/SA        | 213 | S31653 | TP316LN                     | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N       |
| ASTM/ASME | A/SA        | 213 | S31700 | TP317                       | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo         |
| ASTM/ASME | A/SA        | 213 | S31703 | TP317L                      | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo         |
| ASTM/ASME | A/SA        | 213 | S31725 | TP317LM                     | 8                        | 4              | 8.1                         | 19Cr-15Ni-4Mo         |
| ASTM/ASME | A/SA        | 213 | S31726 | TP317LMN                    | 8                        | 4              | 8.1                         | 19Cr-15.5Ni-4Mo       |
| ASTM/ASME | A/SA        | 213 | S32100 | TP321                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti          |
| ASTM/ASME | A/SA        | 213 | S32109 | TP321H                      | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti          |
| ASTM/ASME | A/SA        | 213 | S32615 | S32615                      | 8                        | 1              | 8.1                         | 18Cr-20Ni-5.5Si       |
| ASTM/ASME | A/SA        | 213 | S34565 | S34565                      | 8                        | 4              | 8.3                         | 24Cr-17Ni-6Mn-4.5Mo-N |
| ASTM/ASME | A/SA        | 213 | S34700 | TP347                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 213 | S34709 | TP347H                      | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 213 | S34710 | TP347HFG                    | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 213 | S34751 | TP347LN                     | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb-N      |
| ASTM/ASME | A/SA        | 213 | S34800 | TP348                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 213 | S34809 | TP348H                      | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 213 | S38100 | XM-15                       | 8                        | 1              | 8.1                         | 18Cr-18Ni-2Si       |
| ASTM/ASME | A/SA        | 214 | K01807 |                             | 1                        | 1              | 1.1                         | C                   |
| ASTM/ASME | A/SA        | 216 | J02502 | WCA                         | 1                        | 1              | 1.1                         | C-Si                |
| ASTM/ASME | A/SA        | 216 | J02503 | WCC                         | 1                        | 2              | 1.1                         | C-Mn-Si             |
| ASTM/ASME | A/SA        | 216 | J03002 | WCB                         | 1                        | 2              | 1.1                         | C-Si                |
| ASTM/ASME | A/SA        | 217 | J12072 | WC6                         | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo        |
| ASTM/ASME | A/SA        | 217 | J12082 | WC4                         | 4                        | 1              | 9.1                         | 1Ni-0.5Cr-0.5Mo     |
| ASTM/ASME | A/SA        | 217 | J12524 | WC1                         | 3                        | 1              | 1.1                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 217 | J21890 | WC9                         | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 217 | J22000 | WC5                         | 4                        | 1              | 4.2                         | 0.75Ni-1Mo-0.75Cr   |
| ASTM/ASME | A/SA        | 217 | J42045 | C5                          | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 217 | J82090 | C12                         | 5B                       | 1              | 5.4                         | 9Cr-1Mo             |
| ASTM/ASME | A/SA        | 217 | J84090 | C12A                        | 15E                      | 1              | 6.4                         | 9Cr-1Mo-V           |
| ASTM/ASME | A/SA        | 217 | J91150 | CA15                        | 6                        | 3              | 7.2                         | 13Cr                |
| ASTM/ASME | A/SA        | 225 | K12004 | D                           | 10A                      | 1              | 2.1                         | Mn-0.5Ni-V          |
| ASTM/ASME | A/SA        | 225 | K12524 | C                           | 10A                      | 1              | 4.1                         | Mn-0.5Ni-V          |
| ASTM      | A           | 226 | K01201 |                             | 1                        | 1              | 1.1                         | C-Si                |
| ASTM/ASME | A/SA        | 234 |        | WP11, Cl.1                  | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 234 |        | WP11, Cl.2                  | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 234 |        | WP11, Cl.3                  | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 234 | K03006 | WPB                         | 1                        | 1              | 11.1                        | C-Mn-Si             |
| ASTM/ASME | A/SA        | 234 | K03501 | WPC                         | 1                        | 2              | 11.1                        | C-Mn-Si             |

**Tabelle 1** (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung     |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|-------------------------|
| ASTM/ASME | A/SA        | 234 | K12062 | WP12, Cl.1                  | 4                        | 1              | 5.1                         | 1Cr-0.5Mo               |
| ASTM/ASME | A/SA        | 234 | K12062 | WP12, Cl.2                  | 4                        | 1              | 5.1                         | 1Cr-0.5Mo               |
| ASTM/ASME | A/SA        | 234 | K12821 | WP1                         | 3                        | 1              | 11.2                        | C-0.5Mo                 |
| ASTM/ASME | A/SA        | 234 | K21590 | WP22, Cl.1                  | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo              |
| ASTM/ASME | A/SA        | 234 | K21590 | WP22, Cl.3                  | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo              |
| ASTM/ASME | A/SA        | 234 | K22035 | WPR                         | 9A                       | 1              | 9.1                         | 2Ni-1Cu                 |
| ASTM/ASME | A/SA        | 234 | K41545 | WP5, Cl.1                   | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo               |
| ASTM/ASME | A/SA        | 234 | K41545 | WP5, Cl.3                   | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo               |
| ASTM/ASME | A/SA        | 234 | K90901 | WP91                        | 15E                      | 1              | 6.4                         | 9Cr-1Mo-V               |
| ASTM/ASME | A/SA        | 234 | K90941 | WP9, Cl.1                   | 5B                       | 1              | 5.4                         | 9Cr-1Mo                 |
| ASTM/ASME | A/SA        | 234 | K90941 | WP9, Cl.3                   | 5B                       | 1              | 5.4                         | 9Cr-1Mo                 |
| ASTM/ASME | A/SA        | 240 | N08367 |                             | 45                       |                | 8.2                         | 46Fe-24Ni-21Cr-6Mo-Cu-N |
| ASTM/ASME | A/SA        | 240 | N08904 | 904L                        | 45                       |                | 8.2                         | 44Fe-25Ni-21Cr-Mo       |
| ASTM/ASME | A/SA        | 240 | S20100 | 201-1                       | 8                        | 3              | 8.3                         | 17Cr-4Ni-6Mn            |
| ASTM/ASME | A/SA        | 240 | S20100 | 201-2                       | 8                        | 3              | 8.3                         | 17Cr-4Ni-6Mn            |
| ASTM/ASME | A/SA        | 240 | S20153 | 201LN                       | 8                        | 3              | 8.3                         | 16Cr-4Ni-6Mn            |
| ASTM/ASME | A/SA        | 240 | S20200 | 202                         | 8                        | 3              | 8.3                         | 18Cr-5Ni-9Mn            |
| ASTM/ASME | A/SA        | 240 | S20400 |                             | 8                        | 3              | 8.3                         | 16Cr-9Mn-2Ni-N          |
| ASTM/ASME | A/SA        | 240 | S20910 | XM-19                       | 8                        | 3              | 8.3                         | 22Cr-13Ni-5Mn           |
| ASTM/ASME | A/SA        | 240 | S21600 | XM-17                       | 8                        | 3              | 8.3                         | 19Cr-8Mn-6Ni-Mo-N       |
| ASTM/ASME | A/SA        | 240 | S21603 | XM-18                       | 8                        | 3              | 8.3                         | 19Cr-8Mn-6Ni-Mo-N       |
| ASTM/ASME | A/SA        | 240 | S21800 | S21800                      | 8                        | 3              | 8.1                         | 18Cr-8Ni-4Si-N          |
| ASTM/ASME | A/SA        | 240 | S24000 | XM-29                       | 8                        | 3              | 8.3                         | 18Cr-3Ni-12Mn           |
| ASTM/ASME | A/SA        | 240 | S30100 | 301                         | 8                        | 1              | 8.1                         | 17Cr-7Ni                |
| ASTM/ASME | A/SA        | 240 | S30200 | 302                         | 8                        | 1              | 8.1                         | 18Cr-8Ni                |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 240 | S30400 | 304                         | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 240 | S30403 | 304L                        | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 240 | S30409 | 304H                        | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 240 | S30451 | 304N                        | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 240 | S30452 | XM-21                       | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 240 | S30453 | 304LN                       | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 240 | S30500 | 305                         | 8                        | 1              | 8.1                         | 18Cr-11Ni           |
| ASTM/ASME | A/SA        | 240 | S30600 | S30600                      | 8                        | 1              | 8.1                         | 18Cr-15Ni-4Si       |
| ASTM/ASME | A/SA        | 240 | S30601 | S30601                      | 8                        | 1              | 8.1                         | 17.5Cr-17.5Ni-5.3Si |
| ASTM/ASME | A/SA        | 240 | S30815 | S30815                      | 8                        | 2              | 8.2                         | 21Cr-11Ni-N         |
| ASTM/ASME | A/SA        | 240 | S30908 | 309S                        | 8                        | 2              | 8.2                         | 23Cr-12Ni           |
| ASTM/ASME | A/SA        | 240 | S30909 | 309H                        | 8                        | 2              | 8.2                         | 23Cr-12Ni           |
| ASTM/ASME | A/SA        | 240 | S30940 | 309Cb                       | 8                        | 2              | 8.2                         | 23Cr-12Ni-Cb        |
| ASTM/ASME | A/SA        | 240 | S30941 | 309HCb                      | 8                        | 2              | 8.2                         | 23Cr-12Ni-Cb        |
| ASTM/ASME | A/SA        | 240 | S31008 | 310S                        | 8                        | 2              | 8.2                         | 25Cr-20Ni           |
| ASTM/ASME | A/SA        | 240 | S31009 | 310H                        | 8                        | 2              | 8.2                         | 25Cr-20Ni           |
| ASTM/ASME | A/SA        | 240 | S31040 | 310Cb                       | 8                        | 2              | 8.2                         | 25Cr-20Ni-Cb        |
| ASTM/ASME | A/SA        | 240 | S31041 | 310HCb                      | 8                        | 2              | 8.2                         | 25Cr-20Ni-Cb        |
| ASTM/ASME | A/SA        | 240 | S31050 | 310MoLN                     | 8                        | 2              | 8.2                         | 25Cr-22Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 240 | S31200 | S31200                      | 10H                      | 1              | 10.2                        | 25Cr-6Ni-Mo-N       |
| ASTM/ASME | A/SA        | 240 | S31254 | S31254                      | 8                        | 4              | 8.2                         | 20Cr-18Ni-6Mo       |
| ASTM/ASME | A/SA        | 240 | S31260 | S31260                      | 10H                      | 1              | 10.2                        | 25Cr-6.5Ni-3Mo-N    |
| ASTM/ASME | A/SA        | 240 | S31277 | S31277                      | 45                       |                | 8.2                         | 27Ni-22Cr-7Mo-Mn-Cu |
| ASTM/ASME | A/SA        | 240 | S31600 | 316                         | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 240 | S31603 | 316L                        | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |

**Tabelle 1** (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 240 | S31609 | 316H                        | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 240 | S31635 | 316Ti                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-Ti    |
| ASTM/ASME | A/SA        | 240 | S31640 | 316Cb                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-Cb    |
| ASTM/ASME | A/SA        | 240 | S31651 | 316N                        | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 240 | S31653 | 316LN                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 240 | S31700 | 317                         | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo       |
| ASTM/ASME | A/SA        | 240 | S31703 | 317L                        | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo       |
| ASTM/ASME | A/SA        | 240 | S31725 | S31725                      | 8                        | 4              | 8.1                         | 19Cr-15Ni-4Mo       |
| ASTM/ASME | A/SA        | 240 | S31726 | S31726                      | 8                        | 4              | 8.1                         | 19Cr-15.5Ni-4Mo     |
| ASTM/ASME | A/SA        | 240 | S31753 | S31753                      | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo-N     |
| ASTM/ASME | A/SA        | 240 | S31803 | S31803                      | 10H                      | 1              | 10.1                        | 22Cr-5Ni-3Mo-N      |
| ASTM/ASME | A/SA        | 240 | S32003 |                             | 10H                      | 1              | 10.1                        | 21Cr-3.5Ni-Mo-N     |
| ASTM/ASME | A/SA        | 240 | S32053 |                             | 8                        | 4              | 8.2                         | 23Cr-25Ni-5.5Mo-N   |
| ASTM/ASME | A/SA        | 240 | S32100 | 321                         | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti        |
| ASTM/ASME | A/SA        | 240 | S32101 |                             | 10H                      | 1              | 10.1                        | 21Cr-5Mn-1.5Ni-Cu-N |
| ASTM/ASME | A/SA        | 240 | S32109 | 321H                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti        |
| ASTM/ASME | A/SA        | 240 | S32202 |                             | 10H                      | 1              | 10.1                        | 22Cr-2Ni-Mo-N       |
| ASTM/ASME | A/SA        | 240 | S32205 | 2205                        | 10H                      | 1              | 10.1                        | 22Cr-5Ni-3Mo-N      |
| ASTM/ASME | A/SA        | 240 | S32550 | S32550                      | 10H                      | 1              | 10.2                        | 25Cr-5Ni-3Mo-2Cu    |
| ASTM/ASME | A/SA        | 240 | S32615 | S32615                      | 8                        | 1              | 8.1                         | 18Cr-20Ni-5.5Si     |
| ASTM/ASME | A/SA        | 240 | S32750 | S32750                      | 10H                      | 1              | 10.2                        | 25Cr-7Ni-4Mo-N      |
| ASTM/ASME | A/SA        | 240 | S32760 | S32760                      | 10H                      | 1              | 10.2                        | 25Cr-8Ni-3Mo-W-Cu-N |
| ASTM/ASME | A/SA        | 240 | S32900 | 329                         | 10H                      | 1              | 10.2                        | 26Cr-4Ni-Mo         |
| ASTM/ASME | A/SA        | 240 | S32906 | S32906                      | 10H                      | 1              | 10.2                        | 29Cr-6.5Ni-2Mo-N    |
| ASTM/ASME | A/SA        | 240 | S32950 | S32950                      | 10H                      | 1              | 10.2                        | 26Cr-4Ni-Mo-N       |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung   |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|-----------------------|
| ASTM/ASME | A/SA        | 240 | S34565 | S34565                      | 8                        | 4              | 8.3                         | 24Cr-17Ni-6Mn-4.5Mo-N |
| ASTM/ASME | A/SA        | 240 | S34700 | 347                         | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 240 | S34709 | 347H                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 240 | S34800 | 348                         | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 240 | S34809 | 348H                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 240 | S38100 | XM-15                       | 8                        | 1              | 8.1                         | 18Cr-18Ni-2Si         |
| ASTM/ASME | A/SA        | 240 | S40500 | 405                         | 7                        | 1              | 7.1                         | 12Cr-1Al              |
| ASTM/ASME | A/SA        | 240 | S40910 | 409                         | 7                        | 1              | 7.1                         | 11Cr-Ti               |
| ASTM/ASME | A/SA        | 240 | S40920 | 409                         | 7                        | 1              | 7.1                         | 11Cr-Ti               |
| ASTM/ASME | A/SA        | 240 | S40930 | 409                         | 7                        | 1              | 7.1                         | 11Cr-Ti               |
| ASTM/ASME | A/SA        | 240 | S41000 | 410                         | 6                        | 1              | 7.2                         | 13Cr                  |
| ASTM/ASME | A/SA        | 240 | S41008 | 410S                        | 7                        | 1              | 7.2                         | 13Cr                  |
| ASTM/ASME | A/SA        | 240 | S41500 | S41500                      | 6                        | 4              | 7.2                         | 13Cr-4.5Ni-Mo         |
| ASTM/ASME | A/SA        | 240 | S42900 | 429                         | 6                        | 2              | 7.2                         | 15Cr                  |
| ASTM/ASME | A/SA        | 240 | S43000 | 430                         | 7                        | 2              | 7.1                         | 17Cr                  |
| ASTM/ASME | A/SA        | 240 | S43035 | 439                         | 7                        | 2              | 7.1                         | 18Cr-Ti               |
| ASTM/ASME | A/SA        | 240 | S43932 | S43932                      | 7                        | 2              | 7.1                         | 18Cr-Ti-Cb            |
| ASTM/ASME | A/SA        | 240 | S44400 | S44400                      | 7                        | 2              | 7.1                         | 18Cr-2Mo              |
| ASTM/ASME | A/SA        | 240 | S44626 | XM-33                       | 10I                      | 1              | 7.1                         | 27Cr-1Mo-Ti           |
| ASTM/ASME | A/SA        | 240 | S44627 | XM-27                       | 10I                      | 1              | 7.1                         | 27Cr-1Mo              |
| ASTM/ASME | A/SA        | 240 | S44635 | S44635                      | 10I                      | 1              | 7.1                         | 25Cr-4Ni-4Mo-Ti       |
| ASTM/ASME | A/SA        | 240 | S44660 | S44660                      | 10K                      | 1              | 7.1                         | 26Cr-3Ni-3Mo          |
| ASTM/ASME | A/SA        | 240 | S44700 | S44700                      | 10J                      | 1              | 7.1                         | 29Cr-4Mo              |
| ASTM/ASME | A/SA        | 240 | S44800 | S44800                      | 10K                      | 1              | 7.1                         | 29Cr-4Mo-2Ni          |
| ASTM      | A           | 242 | K11510 | 1                           | 1                        | 2              | 1.2                         | C                     |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung     |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|-------------------------|
| ASTM/ASME | A/SA        | 249 | N08367 |                             | 45                       |                | 8.2                         | 46Fe-24Ni-21Cr-6Mo-Cu-N |
| ASTM/ASME | A/SA        | 249 | N08904 |                             | 45                       |                | 8.2                         | 44Fe-25Ni-21Cr-Mo       |
| ASTM/ASME | A/SA        | 249 | S20100 | TP 201                      | 8                        | 3              | 8.3                         | 17Cr-4Ni-6Mn            |
| ASTM/ASME | A/SA        | 249 | S20200 | TP 202                      | 8                        | 3              | 8.3                         | 18Cr-5Ni-9Mn            |
| ASTM/ASME | A/SA        | 249 | S20910 | TP XM-19                    | 8                        | 3              | 8.3                         | 22Cr-13Ni-5Mn           |
| ASTM/ASME | A/SA        | 249 | S24000 | TP XM-29                    | 8                        | 3              | 8.3                         | 18Cr-3Ni-12Mn           |
| ASTM/ASME | A/SA        | 249 | S30400 | TP304                       | 8                        | 1              | 8.1                         | 18Cr-8Ni                |
| ASTM/ASME | A/SA        | 249 | S30403 | TP304L                      | 8                        | 1              | 8.1                         | 18Cr-8Ni                |
| ASTM/ASME | A/SA        | 249 | S30409 | TP304H                      | 8                        | 1              | 8.1                         | 18Cr-8Ni                |
| ASTM/ASME | A/SA        | 249 | S30451 | TP304N                      | 8                        | 1              | 8.1                         | 18Cr-8Ni-N              |
| ASTM/ASME | A/SA        | 249 | S30453 | TP304LN                     | 8                        | 1              | 8.1                         | 18Cr-8Ni-N              |
| ASTM/ASME | A/SA        | 249 | S30815 | S30815                      | 8                        | 2              | 8.2                         | 21Cr-11Ni-N             |
| ASTM/ASME | A/SA        | 249 | S30900 | TP309                       | 8                        | 2              | 8.2                         | 23Cr-12Ni               |
| ASTM/ASME | A/SA        | 249 | S30908 | TP309S                      | 8                        | 2              | 8.2                         | 23Cr-12Ni               |
| ASTM/ASME | A/SA        | 249 | S30909 | TP309H                      | 8                        | 2              | 8.2                         | 23Cr-12Ni               |
| ASTM/ASME | A/SA        | 249 | S30940 | TP309Cb                     | 8                        | 2              | 8.2                         | 23Cr-12Ni-Cb            |
| ASTM/ASME | A/SA        | 249 | S30941 | TP309HCb                    | 8                        | 2              | 8.2                         | 23Cr-12Ni-Cb            |
| ASTM/ASME | A/SA        | 249 | S31008 | TP310S                      | 8                        | 2              | 8.2                         | 25Cr-20Ni               |
| ASTM/ASME | A/SA        | 249 | S31009 | TP310H                      | 8                        | 2              | 8.2                         | 25Cr-20Ni               |
| ASTM/ASME | A/SA        | 249 | S31040 | TP310Cb                     | 8                        | 2              | 8.2                         | 25Cr-20Ni-Cb            |
| ASTM/ASME | A/SA        | 249 | S31041 | TP310HCb                    | 8                        | 2              | 8.2                         | 25Cr-20Ni-Cb            |
| ASTM/ASME | A/SA        | 249 | S31050 | TP310MoLN                   | 8                        | 2              | 8.2                         | 25Cr-22Ni-2Mo-N         |
| ASTM/ASME | A/SA        | 249 | S31254 | S31254                      | 8                        | 4              | 8.2                         | 20Cr-18Ni-6Mo           |
| ASTM/ASME | A/SA        | 249 | S31600 | TP316                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo           |
| ASTM/ASME | A/SA        | 249 | S31603 | TP316L                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo           |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-klasse | ASME/AWS P oder M Nr. | Gruppen Nr. | ISO/TR 15608:2017 Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-------------------------|-----------------------|-------------|--------------------------|---------------------|
| ASTM/ASME | A/SA        | 249 | S31609 | TP316H                  | 8                     | 1           | 8.1                      | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 249 | S31651 | TP316N                  | 8                     | 1           | 8.1                      | 16Cr-12Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 249 | S31653 | TP316LN                 | 8                     | 1           | 8.1                      | 16Cr-12Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 249 | S31700 | TP317                   | 8                     | 1           | 8.1                      | 18Cr-13Ni-3Mo       |
| ASTM/ASME | A/SA        | 249 | S31703 | TP317L                  | 8                     | 1           | 8.1                      | 18Cr-13Ni-3Mo       |
| ASTM/ASME | A/SA        | 249 | S31725 | S31725                  | 8                     | 4           | 8.1                      | 19Cr-15Ni-4Mo       |
| ASTM/ASME | A/SA        | 249 | S31726 | S31726                  | 8                     | 4           | 8.1                      | 19Cr-15.5Ni-4Mo     |
| ASTM/ASME | A/SA        | 249 | S32053 |                         | 8                     | 4           | 8.2                      | 23Cr-25Ni-5.5Mo-N   |
| ASTM/ASME | A/SA        | 249 | S32100 | TP321                   | 8                     | 1           | 8.1                      | 18Cr-10Ni-Ti        |
| ASTM/ASME | A/SA        | 249 | S32109 | TP321H                  | 8                     | 1           | 8.1                      | 18Cr-10Ni-Ti        |
| ASTM/ASME | A/SA        | 249 | S34700 | TP347                   | 8                     | 1           | 8.1                      | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 249 | S34709 | TP347H                  | 8                     | 1           | 8.1                      | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 249 | S34800 | TP348                   | 8                     | 1           | 8.1                      | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 249 | S34809 | TP348H                  | 8                     | 1           | 8.1                      | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 249 | S38100 | TP XM-15                | 8                     | 1           | 8.1                      | 18Cr-18Ni-2Si       |
| ASTM/ASME | A/SA        | 250 | K11422 | T1b                     | 3                     | 1           | 1.1                      | C-0.5Mo             |
| ASTM/ASME | A/SA        | 250 | K11522 | T1                      | 3                     | 1           | 1.1                      | C-0.5Mo             |
| ASTM/ASME | A/SA        | 250 | K11547 | T2                      | 3                     | 1           | 4.2                      | 0.5Cr-0.5Mo         |
| ASTM/ASME | A/SA        | 250 | K11562 | T12                     | 4                     | 1           | 5.1                      | 1Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 250 | K11597 | T11                     | 4                     | 1           | 5.1                      | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 250 | K12023 | T1a                     | 3                     | 1           | 1.1                      | C-0.5Mo             |
| ASTM/ASME | A/SA        | 250 | K21590 | T22                     | 5A                    | 1           | 5.2                      | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 266 | K03017 | 4                       | 1                     | 2           | 11.1                     | C-Mn-Si             |
| ASTM/ASME | A/SA        | 266 | K03506 | 1                       | 1                     | 1           | 11.1                     | C-Si                |
| ASTM/ASME | A/SA        | 266 | K03506 | 2                       | 1                     | 2           | 11.1                     | C-Si                |

**Tabelle 1** (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 266 | K05001 | 3                           | 1                        | 2              | 11.2                        | C-Si                |
| ASTM/ASME | A/SA        | 268 | S40500 | TP405                       | 7                        | 1              | 7.1                         | 12Cr-1Al            |
| ASTM/ASME | A/SA        | 268 | S40800 | S40800                      | 7                        | 1              | 7.1                         | 12Cr-Ti             |
| ASTM/ASME | A/SA        | 268 | S40900 | TP409                       | 7                        | 1              | 7.1                         | 11Cr-Ti             |
| ASTM/ASME | A/SA        | 268 | S41000 | TP410                       | 6                        | 1              | 7.2                         | 13Cr                |
| ASTM/ASME | A/SA        | 268 | S41500 | S41500                      | 6                        | 4              | 7.2                         | 13Cr-4.5Ni-Mo       |
| ASTM/ASME | A/SA        | 268 | S42900 | TP429                       | 6                        | 2              | 7.2                         | 15Cr                |
| ASTM/ASME | A/SA        | 268 | S43000 | TP430                       | 7                        | 2              | 7.1                         | 17Cr                |
| ASTM/ASME | A/SA        | 268 | S43035 | TP439                       | 7                        | 2              | 7.1                         | 18Cr-Ti             |
| ASTM/ASME | A/SA        | 268 | S43036 | TP430Ti                     | 7                        | 2              | 7.1                         | 18Cr-Ti             |
| ASTM/ASME | A/SA        | 268 | S44400 | 18Cr-2Mo                    | 7                        | 2              | 7.1                         | 18Cr-2Mo            |
| ASTM/ASME | A/SA        | 268 | S44600 | TP 446-1                    | 10I                      | 1              | 7.1                         | 27Cr                |
| ASTM/ASME | A/SA        | 268 | S44600 | TP 446-2                    | 10I                      | 1              | 7.1                         | 27Cr                |
| ASTM/ASME | A/SA        | 268 | S44626 | TP XM-33                    | 10I                      | 1              | 7.1                         | 27Cr-1Mo-Ti         |
| ASTM/ASME | A/SA        | 268 | S44627 | TP XM-27                    | 10I                      | 1              | 7.1                         | 27Cr-1Mo            |
| ASTM/ASME | A/SA        | 268 | S44635 | 25-4-4                      | 10I                      | 1              | 7.1                         | 25Cr-4Ni-4Mo-Ti     |
| ASTM/ASME | A/SA        | 268 | S44660 | 26-3-3                      | 10K                      | 1              | 7.1                         | 26Cr-3Ni-3Mo        |
| ASTM/ASME | A/SA        | 268 | S44700 | 29-4                        | 10J                      | 1              | 7.1                         | 29Cr-4Mo            |
| ASTM/ASME | A/SA        | 268 | S44735 | S44735                      | 10J                      | 1              | 7.1                         | 29Cr-4Mo-Ti         |
| ASTM/ASME | A/SA        | 268 | S44800 | 29-4-2                      | 10K                      | 1              | 7.1                         | 29Cr-4Mo-2Ni        |
| ASTM      | A           | 269 | S20910 | TPXM-19                     | 8                        | 3              | 8.3                         | 22Cr-13Ni-5Mn       |
| ASTM      | A           | 269 | S21900 | TPXM-10                     | 8                        | 3              | 8.3                         | 20Cr-6Ni-9Mn        |
| ASTM      | A           | 269 | S21904 | TPXM-11                     | 8                        | 3              | 8.3                         | 21Cr-6Ni-9Mn        |
| ASTM      | A           | 269 | S24000 | TPXM-29                     | 8                        | 3              | 8.3                         | 18Cr-3Ni-12Mn       |
| ASTM      | A           | 269 | S30400 | TP304                       | 8                        | 1              | 8.1                         | 18Cr-8Ni            |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM      | A           | 269 | S30403 | TP304L                      | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM      | A           | 269 | S30453 | TP304LN                     | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM      | A           | 269 | S31600 | TP316                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM      | A           | 269 | S31603 | TP316L                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM      | A           | 269 | S31653 | TP316LN                     | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N     |
| ASTM      | A           | 269 | S31700 | TP317                       | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo       |
| ASTM      | A           | 269 | S32100 | TP321                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti        |
| ASTM      | A           | 269 | S34700 | TP347                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM      | A           | 269 | S34800 | TP348                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM      | A           | 269 | S38100 | TPXM-15                     | 8                        | 3              | 8.3                         | 18Cr-18Ni-2Si       |
| ASTM      | A           | 270 | S30400 | TP304                       | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM      | A           | 271 | S30400 | TP304                       | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM      | A           | 271 | S30409 | TP304H                      | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM      | A           | 271 | S31600 | TP316                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM      | A           | 271 | S31609 | TP316H                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM      | A           | 271 | S32100 | TP321                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti        |
| ASTM      | A           | 271 | S32109 | TP321H                      | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti        |
| ASTM      | A           | 271 | S34700 | TP347                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM      | A           | 271 | S34709 | TP347H                      | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 276 | S30400 | TP304                       | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 276 | S30403 | TP304L                      | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 276 | S31600 | TP316                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 276 | S31603 | TP316L                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM      | A           | 276 | S32101 |                             | 10H                      | 1              | 10.1                        | 21Cr-5Mn-1.5Ni-Cu-N |
| ASTM/ASME | A/SA        | 276 | S32205 | S32205                      | 10H                      | 1              | 10.1                        | 22Cr-5Ni-3Mo-N      |

**Tabelle 1** (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung     |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|-------------------------|
| ASTM/ASME | A/SA        | 276 | S32550 |                             | 10H                      | 1              | 10.1                        | 25Cr-5Ni-3Mo-2Cu        |
| ASTM/ASME | A/SA        | 276 | S41000 | TP410                       | 6                        | 1              | 7.2                         | 13Cr                    |
| ASTM/ASME | A/SA        | 283 | K01400 | A                           | 1                        | 1              | 1.1                         | C                       |
| ASTM/ASME | A/SA        | 283 | K01702 | B                           | 1                        | 1              | 1.1                         | C                       |
| ASTM/ASME | A/SA        | 283 | K02401 | C                           | 1                        | 1              | 1.1                         | C                       |
| ASTM/ASME | A/SA        | 283 | K02702 | D                           | 1                        | 1              | 1.1                         | C                       |
| ASTM/ASME | A/SA        | 285 | K01700 | A                           | 1                        | 1              | 1.1                         | C                       |
| ASTM/ASME | A/SA        | 285 | K02200 | B                           | 1                        | 1              | 1.1                         | C                       |
| ASTM/ASME | A/SA        | 285 | K02801 | C                           | 1                        | 1              | 11.1                        | C                       |
| ASTM      | A           | 297 | J92603 | HF                          | 8                        | 2              | 8.2                         | 21Cr-10Ni-2Mn-2Si       |
| ASTM      | A           | 297 | J93403 | HE                          | 8                        | 2              | 8.2                         | 28Cr-10Ni-2Mn-2Si       |
| ASTM      | A           | 297 | J93503 | HH                          | 8                        | 2              | 8.2                         | 26Cr-13Ni-2Mn-2Si       |
| ASTM      | A           | 297 | J94003 | HI                          | 8                        | 2              | 8.2                         | 28Cr-16Ni-2Mn-2Si       |
| ASTM      | A           | 297 | J94224 | HK                          | 8                        | 2              | 8.2                         | 26Cr-20Ni-2Mn-2Si       |
| ASTM/ASME | A/SA        | 299 | K02803 | A                           | 1                        | 2              | 11.1                        | C-Mn-Si                 |
| ASTM/ASME | A/SA        | 299 | K02803 | B                           | 1                        | 3              | 11.1                        | C-Mn-Si                 |
| ASTM/ASME | A/SA        | 302 | K12021 | A                           | 3                        | 2              | 1.1                         | Mn-0.5Mo                |
| ASTM/ASME | A/SA        | 302 | K12022 | B                           | 3                        | 3              | 1.2                         | Mn-0.5Mo                |
| ASTM/ASME | A/SA        | 312 | N08367 | N08367                      | 45                       |                | 8.2                         | 46Fe-24Ni-21Cr-6Mo-Cu-N |
| ASTM/ASME | A/SA        | 312 | N08904 |                             | 45                       |                | 8.2                         | 44Fe-25Ni-21Cr-Mo       |
| ASTM/ASME | A/SA        | 312 | S20910 | TP XM-19                    | 8                        | 3              | 8.3                         | 22Cr-13Ni-5Mn           |
| ASTM/ASME | A/SA        | 312 | S21904 | TP XM-11                    | 8                        | 3              | 8.3                         | 21Cr-6Ni-9Mn            |
| ASTM/ASME | A/SA        | 312 | S24000 | TP XM-29                    | 8                        | 3              | 8.3                         | 18Cr-3Ni-12Mn           |
| ASTM/ASME | A/SA        | 312 | S30400 | TP304                       | 8                        | 1              | 8.1                         | 18Cr-8Ni                |
| ASTM/ASME | A/SA        | 312 | S30403 | TP304L                      | 8                        | 1              | 8.1                         | 18Cr-8Ni                |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 312 | S30409 | TP304H                      | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 312 | S30451 | TP304N                      | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 312 | S30453 | TP304LN                     | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 312 | S30600 | S30600                      | 8                        | 1              | 8.1                         | 18Cr-15Ni-4Si       |
| ASTM/ASME | A/SA        | 312 | S30815 | S30815                      | 8                        | 2              | 8.2                         | 21Cr-11Ni-N         |
| ASTM/ASME | A/SA        | 312 | S30908 | TP309S                      | 8                        | 2              | 8.2                         | 23Cr-12Ni           |
| ASTM/ASME | A/SA        | 312 | S30909 | TP309H                      | 8                        | 2              | 8.2                         | 23Cr-12Ni           |
| ASTM/ASME | A/SA        | 312 | S30940 | TP309Cb                     | 8                        | 2              | 8.2                         | 23Cr-12Ni-Cb        |
| ASTM/ASME | A/SA        | 312 | S30941 | TP309HCb                    | 8                        | 2              | 8.2                         | 23Cr-12Ni-Cb        |
| ASTM/ASME | A/SA        | 312 | S31008 | TP310S                      | 8                        | 2              | 8.2                         | 25Cr-20Ni           |
| ASTM/ASME | A/SA        | 312 | S31009 | TP310H                      | 8                        | 2              | 8.2                         | 25Cr-20Ni           |
| ASTM/ASME | A/SA        | 312 | S31040 | TP310Cb                     | 8                        | 2              | 8.2                         | 25Cr-20Ni-Cb        |
| ASTM/ASME | A/SA        | 312 | S31041 | TP310HCb                    | 8                        | 2              | 8.2                         | 25Cr-20Ni-Cb        |
| ASTM/ASME | A/SA        | 312 | S31050 | TP310MoLN                   | 8                        | 2              | 8.2                         | 25Cr-22Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 312 | S31254 | S31254                      | 8                        | 4              | 8.2                         | 20Cr-18Ni-6Mo       |
| ASTM/ASME | A/SA        | 312 | S31600 | TP316                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 312 | S31603 | TP316L                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 312 | S31609 | TP316H                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 312 | S31635 | TP316Ti                     | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-Ti    |
| ASTM/ASME | A/SA        | 312 | S31651 | TP316N                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 312 | S31653 | TP316LN                     | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 312 | S31700 | TP317                       | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo       |
| ASTM/ASME | A/SA        | 312 | S31703 | TP317L                      | 8                        | 1              | 8.1                         | 18Cr-13Ni-3Mo       |
| ASTM/ASME | A/SA        | 312 | S31725 | S31725                      | 8                        | 4              | 8.1                         | 19Cr-15Ni-4Mo       |
| ASTM/ASME | A/SA        | 312 | S31726 | S31726                      | 8                        | 4              | 8.1                         | 19Cr-15.5Ni-4Mo     |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung   |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|-----------------------|
| ASTM/ASME | A/SA        | 312 | S32053 |                             | 8                        | 4              | 8.2                         | 23Cr-25Ni-5.5Mo-N     |
| ASTM/ASME | A/SA        | 312 | S32100 | TP321                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti          |
| ASTM/ASME | A/SA        | 312 | S32109 | TP321H                      | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti          |
| ASTM/ASME | A/SA        | 312 | S32615 | S32615                      | 8                        | 1              | 8.1                         | 18Cr-20Ni-5.5Si       |
| ASTM/ASME | A/SA        | 312 | S34565 | S34565                      | 8                        | 4              | 8.3                         | 24Cr-17Ni-6Mn-4.5Mo-N |
| ASTM/ASME | A/SA        | 312 | S34700 | TP347                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 312 | S34709 | TP347H                      | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 312 | S34751 | TP347LN                     | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb-N        |
| ASTM/ASME | A/SA        | 312 | S34800 | TP348                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 312 | S34809 | TP348H                      | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb          |
| ASTM/ASME | A/SA        | 312 | S38100 | TP XM-15                    | 8                        | 1              | 8.1                         | 18Cr-18Ni-2Si         |
| ASTM/ASME | A/SA        | 333 |        | 10                          | 1                        | 3              | 11.1                        | C-Mn-Si               |
| ASTM/ASME | A/SA        | 333 | K03006 | 6                           | 1                        | 1              | 11.1                        | C-Mn-Si               |
| ASTM/ASME | A/SA        | 333 | K03008 | 1                           | 1                        | 1              | 11.1                        | C-Mn                  |
| ASTM/ASME | A/SA        | 333 | K11267 | 4                           | 4                        | 2              | 4.1                         | 0.75Cr-0.75Ni-Cu-Al   |
| ASTM/ASME | A/SA        | 333 | K21903 | 7                           | 9A                       | 1              | 9.1                         | 2.5Ni                 |
| ASTM/ASME | A/SA        | 333 | K22035 | 9                           | 9A                       | 1              | 9.1                         | 2Ni-1Cu               |
| ASTM/ASME | A/SA        | 333 | K31918 | 3                           | 9B                       | 1              | 9.2                         | 3.5Ni                 |
| ASTM/ASME | A/SA        | 333 | K81340 | 8                           | 11A                      | 1              | 9.3                         | 9Ni                   |
| ASTM/ASME | A/SA        | 334 | K03006 | 6                           | 1                        | 1              | 11.1                        | C-Mn-Si               |
| ASTM/ASME | A/SA        | 334 | K03008 | 1                           | 1                        | 1              | 11.1                        | C-Mn                  |
| ASTM/ASME | A/SA        | 334 | K21903 | 7                           | 9A                       | 1              | 9.1                         | 2.5Ni                 |
| ASTM/ASME | A/SA        | 334 | K22035 | 9                           | 9A                       | 1              | 9.1                         | 2Ni-1Cu               |
| ASTM/ASME | A/SA        | 334 | K31918 | 3                           | 9B                       | 1              | 9.2                         | 3.5Ni                 |
| ASTM/ASME | A/SA        | 334 | K81340 | 8                           | 11A                      | 1              | 9.3                         | 9Ni                   |

Tabelle 1 (fortgesetzt)

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 335 | K11522 | P1                          | 3                        | 1              | 1.1                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 335 | K11547 | P2                          | 3                        | 1              | 4.2                         | 0.5Cr-0.5Mo         |
| ASTM/ASME | A/SA        | 335 | K11562 | P12                         | 4                        | 1              | 5.1                         | 1Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 335 | K11597 | P11                         | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 335 | K21590 | P22                         | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 335 | K31545 | P21                         | 5A                       | 1              | 5.2                         | 3Cr-1Mo             |
| ASTM/ASME | A/SA        | 335 | K41245 | P5c                         | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo-Ti        |
| ASTM/ASME | A/SA        | 335 | K41545 | P5                          | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 335 | K51545 | P5b                         | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo-Si        |
| ASTM/ASME | A/SA        | 335 | K90901 | P91                         | 15E                      | 1              | 6.4                         | 9Cr-1Mo-V           |
| ASTM/ASME | A/SA        | 335 | K90941 | P9                          | 5B                       | 1              | 5.4                         | 9Cr-1Mo             |
| ASTM/ASME | A/SA        | 335 | K92460 | P92                         | 15E                      | 1              | 6.4                         | 9Cr-2W              |
| ASTM/ASME | A/SA        | 336 | K11564 | F12                         | 4                        | 1              | 5.1                         | 1Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 336 | K11572 | F11, Cl.2                   | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 336 | K11572 | F11, Cl.3                   | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 336 | K11597 | F11, Cl.1                   | 4                        | 1              | 5.1                         | 1.25Cr-0.5Mo-Si     |
| ASTM/ASME | A/SA        | 336 | K12520 | F1                          | 3                        | 2              | 1.1                         | C-0.5Mo             |
| ASTM/ASME | A/SA        | 336 | K21590 | F22, Cl.1                   | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 336 | K21590 | F22, Cl.3                   | 5A                       | 1              | 5.2                         | 2.25Cr-1Mo          |
| ASTM/ASME | A/SA        | 336 | K31390 | F3VCb                       | 5C                       | 1              | 6.2                         | 3Cr-1Mo-0.25V-Cb-Ca |
| ASTM/ASME | A/SA        | 336 | K31545 | F21, Cl.1                   | 5A                       | 1              | 5.2                         | 3Cr-1Mo             |
| ASTM/ASME | A/SA        | 336 | K31545 | F21, Cl.3                   | 5A                       | 1              | 5.2                         | 3Cr-1Mo             |
| ASTM/ASME | A/SA        | 336 | K31830 | F3V                         | 5C                       | 1              | 6.2                         | 3Cr-1Mo-V-Ti-B      |
| ASTM/ASME | A/SA        | 336 | K31835 | F22V                        | 5C                       | 1              | 6.2                         | 2.25Cr-1Mo-V        |
| ASTM/ASME | A/SA        | 336 | K41545 | F5                          | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo           |

**Tabelle 1 (fortgesetzt)**

| Norm      | Bezeichnung | Nr. | UNS    | Typ oder Handels-<br>klasse | ASME/AWS<br>P oder M Nr. | Gruppen<br>Nr. | ISO/TR 15608:2017<br>Gruppe | Nennzusammensetzung |
|-----------|-------------|-----|--------|-----------------------------|--------------------------|----------------|-----------------------------|---------------------|
| ASTM/ASME | A/SA        | 336 | K42544 | F5A                         | 5B                       | 1              | 5.3                         | 5Cr-0.5Mo           |
| ASTM/ASME | A/SA        | 336 | K90901 | F91                         | 15E                      | 1              | 6.4                         | 9Cr-1Mo-V           |
| ASTM/ASME | A/SA        | 336 | K90941 | F9                          | 5B                       | 1              | 5.4                         | 9Cr-1Mo             |
| ASTM/ASME | A/SA        | 336 | S20910 | FXM-19                      | 8                        | 3              | 8.3                         | 22Cr-13Ni-5Mn       |
| ASTM/ASME | A/SA        | 336 | S21904 | FXM-11                      | 8                        | 3              | 8.3                         | 21Cr-6Ni-9Mn        |
| ASTM/ASME | A/SA        | 336 | S30400 | F304                        | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 336 | S30403 | F304L                       | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 336 | S30409 | F304H                       | 8                        | 1              | 8.1                         | 18Cr-8Ni            |
| ASTM/ASME | A/SA        | 336 | S30451 | F304N                       | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 336 | S30453 | F304LN                      | 8                        | 1              | 8.1                         | 18Cr-8Ni-N          |
| ASTM/ASME | A/SA        | 336 | S30600 | F46                         | 8                        | 1              | 8.1                         | 18Cr-15Ni-4Si       |
| ASTM/ASME | A/SA        | 336 | S31000 | F310                        | 8                        | 2              | 8.2                         | 25Cr-20Ni           |
| ASTM/ASME | A/SA        | 336 | S31600 | F316                        | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 336 | S31603 | F316L                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 336 | S31609 | F316H                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo       |
| ASTM/ASME | A/SA        | 336 | S31651 | F316N                       | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 336 | S31653 | F316LN                      | 8                        | 1              | 8.1                         | 16Cr-12Ni-2Mo-N     |
| ASTM/ASME | A/SA        | 336 | S32100 | F321                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti        |
| ASTM/ASME | A/SA        | 336 | S32109 | F321H                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Ti        |
| ASTM/ASME | A/SA        | 336 | S34700 | F347                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 336 | S34709 | F347H                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 336 | S34800 | F348                        | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 336 | S34809 | F348H                       | 8                        | 1              | 8.1                         | 18Cr-10Ni-Cb        |
| ASTM/ASME | A/SA        | 336 | S41000 | F6                          | 6                        | 3              | 7.2                         | 13Cr                |
| ASTM/ASME | A/SA        | 336 | S44627 | FXM-27Cb                    | 10I                      | 1              | 7.1                         | 27Cr-1Mo            |