

AS/NZS 1734:1997

Reconfirmed 2020

Australian/New Zealand Standard[®]

**Aluminium and aluminium
alloys—Flat sheet, coiled sheet
and plate**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MT/3, Aluminium and Aluminium Alloys. It was approved on behalf of the Council of Standards Australia on 25 April 1997 and on behalf of the Council of Standards New Zealand on 29 April 1997. It was published on 5 July 1997.

The following interests are represented on Committee MT/3:

Australasian Railway Association
Australian Aluminium Council
New Zealand Manufacturers Federation
Society of Automotive Engineers—Australasia

Additional interests participating in preparation of Standard:

Aeronautical and Maritime Research Laboratories

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION
OF
AS/NZS 1734:1997
Aluminium and aluminium alloys—
Flat sheet, coiled sheet and plate

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Major stakeholders of this publication have reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 29 August 2018.

Approved for reconfirmation in New Zealand on behalf of the New Zealand Standards Approval Board on 18 June 2020.

NOTES

AS/NZS 1734:1997

Australian/New Zealand Standard[®]

**Aluminium and aluminium
alloys—Flat sheet, coiled sheet
and plate**

Originated in Australia as AS H48—1949.
Previous edition AS 1734—1986.
Jointly revised and designated AS/NZS 1734:1997.

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
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Homebush NSW 2140 Australia

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Level 10, Standards House,
155 The Terrace,
Wellington 6001 New Zealand

PREFACE

This Standard was prepared by the joint Standards Australia/Standards New Zealand Committee MT/3, Aluminium and Aluminium Alloys, to supersede AS 1734—1986.

The objective of this revision is to upgrade the requirements for wrought aluminium and aluminium alloy flat sheet, coiled sheet and plate for general engineering purposes.

During the preparation of this Standard cognizance was taken of the publication, *Aluminium Standards, Data and design—Wrought products*, published in 1994 by the Aluminium Development Council of Australia. Cognizance was also taken of the following International Standards:

ISO

6361 Wrought aluminium and aluminium alloy sheets, strips and plates

6361.1: 1986 Part 1: Technical conditions for inspection and delivery

6361.2: 1990 Part 2: Mechanical properties

6361.3: 1985 Part 3: Strips—Tolerances on shape and dimensions

6361.4: 1988 Part 4: Sheets and plates—Tolerances on form and dimensions

The ISO 6361 series of Standards was not considered to be an appropriate replacement for AS 1734 because the designation systems used in these Standards do not represent current international practice. The four-figure numerical alloy designation system of the American Aluminium Association is used by Australian and New Zealand industry, and has been adopted by the European Standard EN 573.1:1994, *Aluminium and aluminium alloys—Chemical composition and form of wrought products*, Part 1: *Numerical designation system*.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Aluminium and aluminium alloys—Flat sheet, coiled sheet and plate**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for wrought aluminium and aluminium alloy flat sheet, coiled sheet and plate for general engineering purposes. It applies to locally manufactured or imported material grades commonly used in Australia and New Zealand.

NOTES:

- 1 Advice and recommendations on information to be supplied by the purchaser at the time of enquiry or order are contained in the purchasing guidelines set out in Appendix A.
- 2 Typical fabrication characteristics and application data for wrought aluminium and aluminium alloys are given in Appendix B.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

- 1391 Methods for tensile testing of metals
- 2338 Preferred dimensions of wrought metal products
- 2505 Methods for bend and related testing of metals
- 2505.1 Part 1: Sheet, strip and plate
- 2612 Aluminium and aluminium alloys—Sampling and preparation of solid samples for optical emission spectrometry
- 2706 Numerical values—Rounding and interpretation of limiting values
- 2848 Aluminium and aluminium alloys—Compositions and designations
- 2848.1 Part 1: Wrought products

BS

- 1728 Methods for the analysis of aluminium and aluminium alloys (all parts)

ASTM

- E 34 Test methods for chemical analysis of aluminium and aluminium-base alloys

1.3 DEFINITIONS For the purpose of this Standard, the definitions below apply.

1.3.1 Alclad sheet—a composite sheet having on one or both surfaces a metallurgically bonded aluminium or aluminium alloy coating for protection of the core alloy against corrosion.

1.3.2 Batch—all product in a shipment, of the same alloy, temper, width, thickness and finish. For thermally treated product (annealed, solution heat treated, aged and stress relieved), a batch also consists of product from the same furnace load.

1.3.3 Lateral bow—the deviation of a side edge of sheet or plate from a straight line, the measurement being taken on the concave side.

1.3.4 Out-of-squareness—the difference between the major and minor diagonals of the sheet or plate.

1.3.5 Plate—a rolled rectangular section greater than 6 mm thick, with either sheared or sawn edges.

1.3.6 Sheet—a rolled rectangular section over 0.15 mm and up to 6 mm thick, with sheared, slit or sawn edges. It may be in one of the following forms—

- (a) coiled, with slit edges; or
- (b) flat (flattened or levelled), with sheared, slit or sawn edges.

1.4 DESIGNATION

1.4.1 General The aluminium and aluminium alloy designation shall comprise the number of this Standard, i.e. AS/NZS 1734, followed by a diagonal slash and additional characters in accordance with Clauses 1.4.2 and 1.4.3.

1.4.2 Alloy designation The aluminium alloy designation shall comprise a four-digit number to identify the chemical composition (see AS 2848.1). A suffix letter 'A' indicates a major deviation of any grade from the standard alloy.

1.4.3 Temper designation The temper designation shall be in accordance with AS 2848.1 and shall be used for all forms of wrought aluminium and aluminium alloys. It shall follow the alloy designation, the two being separated by a dash.

Examples of complete designation: AS/NZS 1734/1080A-H112, AS/NZS 1734/5005-O, AS/NZS 1734/6061-T42.

1.5 ROUNDING OF TEST RESULT VALUES The observed or calculated values shall be rounded to the same number of figures as in the specified values, and then compared with the specified values. For example, for specified maximum or minimum values of 2.5, 2.50 and 2.500, the observed or calculated value would be rounded respectively to the nearest 0.1, 0.01, or 0.001. (See also AS 2706.)

1.6 MARKING Each coil or shipping unit shall be legibly and durably marked or tagged with the batch number or other identification number, product size, alloy and temper, and the manufacturer's name or trademark. On flat sheet and plate, markings shall appear at each end.

NOTE: Manufacturers making a statement of compliance with this Australian/New Zealand Standard on a product, or on packaging or promotional material related to that product, are advised to ensure that such compliance is capable of being verified.

1.7 TRACEABILITY If traceability of the product back to the cast number of the billet used in the manufacturing process is required, this requirement shall be stated and agreed to at the time of enquiry or order.

SECTION 2 MANUFACTURING REQUIREMENTS

2.1 SCOPE This Section specifies general quality requirements including chemical composition, mechanical properties and manufacturing tolerances for flat products.

2.2 CHEMICAL COMPOSITION

2.2.1 General The method of sampling for chemical analysis shall be in accordance with AS 2612. Chemical composition shall be determined by any procedures which are not less accurate than those given in any of the relevant parts of BS 1728, or the methods specified in ASTM E 34.

2.2.2 Chemical analysis Chemical analysis shall be performed on samples taken at the time the ingots are poured, or on samples taken from the finished or semifinished product, and shall conform to the limits given in Table 2.1, as appropriate.

If the supplier has determined the chemical composition of the product during the course of manufacture, it is not required to sample and analyse the finished product.

2.3 FREEDOM FROM DEFECTS

2.3.1 General The product shall be free from defects and contaminants detrimental to its subsequent processing and end use.

NOTE: It is expected that the degree or amount of surface defects present in coils will exceed those in cut lengths because of the impracticability of inspection and the impossibility of rejecting portions of a coil.

If, after acceptance of the product and provided that it has been properly treated after delivery, subsequent processing reveals that it contains defects found to be detrimental, the product shall be deemed not to comply with this Standard.

NOTE: Defects referred to in this Clause cannot be completely quantified. Where the presence, size or frequency of any defect is considered to be of concern, arrangements should be made between the purchaser and the manufacturer. This may be achieved by acceptable type samples or methods of test.

2.3.2 Surface dressing of plate Conditioning of plate for the removal of scratches or minor surface imperfections by localized grinding or abrasive disc operation is permitted, provided that thickness tolerances are maintained.

NOTE: The repaired area will generally exhibit a surface appearance differing from a mill finish. However, texture may be controlled by the selection of the abrasive grit size, which is subject to agreement.

2.4 MECHANICAL PROPERTIES

2.4.1 Tensile properties When tested in accordance with Clause 3.3.1 and Clause 3.5, the tensile strength, 0.2% proof stress and elongation shall comply with the requirements of Table 2.2.

2.4.2 Bend properties When tested in accordance with Clause 3.6, the external bent portion of the test piece shall show no evidence of cracking when viewed without magnification.

2.5 MANUFACTURING TOLERANCES The manufacturing tolerances for plate, flat sheet, coiled sheet and blanked and sheared sheet circles shall comply with the requirements of Section 4.

TABLE 2.1
REQUIREMENTS FOR CHEMICAL COMPOSITION

Alloy designation	Chemical composition, %											
	Aluminium min.	Silicon max. or range	Iron max. or range	Copper max. or range	Manganese max. or range	Magnesium max. or range	Chromium max. or range	Zinc max. or range	Titanium max. or range	Other specific elements max. or range	Others (Note 1 max.	
											Each	Total
1050	99.50 (Note 2)	0.25	0.40	0.05	0.05	0.05	—	0.05	0.03	V 0.05	0.03	—
1070	99.70 (Note 2)	0.20	0.25	0.04	0.03	0.03	—	0.04	0.03	V 0.05	0.03	—
1100	99.00 (Note 2)	Si + Fe 0.95	—	0.05–0.20	0.05	—	—	0.10	—	(Note 4)	0.05	0.15
1120	99.20 (Note 2)	0.10	0.40	0.05–0.35	0.01	0.20	0.01	0.05	V + Ti 0.02	Ga 0.03, B 0.05	0.03	0.10
1145	99.45 (Note 2)	Si + Fe 0.55	—	0.05	0.05	0.05	—	0.05	0.03	V 0.05	0.03	—
1150	99.50 (Note 2)	Si + Fe 0.45	—	0.05–0.20	0.05	0.05	—	0.05	0.03	—	0.03	—
1199	99.99 (Note 3)	0.006	0.006	0.006	0.002	0.006	—	0.006	0.002	Ga 0.005, V 0.005	0.002	—
1200	99.00 (Note 2)	Si + Fe 1.00	—	0.05	0.05	—	—	0.10	0.05	(Note 4)	0.05	0.15
1230	99.30 (Note 2)	Si + Fe 0.70	—	0.10	0.05	0.05	—	0.10	0.03	V 0.05	0.03	—
1350	99.50 (Note 2)	0.10	0.40	0.05	0.01	—	0.01	0.05	V + Ti 0.02	Ga 0.03, B 0.05	0.03	0.10
2024	REM	0.50	0.50	3.8–4.9	0.30–0.9	1.2–1.8	0.10	0.25	0.15	—	0.05	0.15
3003	REM	0.6	0.7	0.05–0.20	1.0–1.5	—	—	0.10	—	—	0.05	0.15
3004	REM	0.30	0.7	0.25	1.0–1.5	0.8–1.3	—	0.25	—	—	0.05	0.15
3004A	REM	0.40	0.7	0.25	0.8–1.5	0.8–1.5	0.10	0.25	0.05	Pb 0.03	0.05	0.15
3005	REM	0.6	0.7	0.30	1.0–1.5	0.20–0.6	0.10	0.25	0.10	—	0.05	0.15
3104	REM	0.6	0.8	0.05–0.25	0.8–1.4	0.8–1.3	—	0.25	0.10	Ga 0.05, V 0.05	0.05	0.15
3105	REM	0.6	0.7	0.30	0.30–0.8	0.20–0.8	0.20	0.40	0.10	—	0.05	0.15
4043	REM	4.5–6.0	0.8	0.30	0.05	0.05	—	0.10	0.20	(Note 4)	0.05	0.15
4047	REM	11.0–13.0	0.8	0.30	0.15	0.10	—	0.20	—	(Note 4)	0.05	0.15
4343	REM	6.8–8.2	0.8	0.25	0.10	—	—	0.20	—	—	0.05	0.15
5005	REM	0.30	0.7	0.20	0.20	0.50–1.1	0.10	0.25	—	—	0.05	0.15
5042	REM	0.20	0.35	0.15	0.20–0.50	3.0–4.0	0.10	0.25	0.10	—	0.05	0.15
5052	REM	0.25	0.40	0.10	0.10	2.2–2.8	0.15–0.35	0.10	—	—	0.05	0.15
5056	REM	0.30	0.40	0.10	0.05–0.20	4.5–5.6	0.05–0.20	0.10	—	—	0.05	0.15
5082	REM	0.20	0.35	0.15	0.15	4.0–5.0	0.15	0.25	0.10	—	0.05	0.15
5083	REM	0.40	0.40	0.10	0.40–1.0	4.0–4.9	0.05–0.25	0.25	0.15	—	0.05	0.15
5086	REM	0.40	0.50	0.10	0.20–0.7	3.5–4.5	0.05–0.25	0.25	0.15	—	0.05	0.15
5182	REM	0.20	0.35	0.15	0.20–0.50	4.0–5.0	0.10	0.25	0.10	—	0.05	0.15
5251	REM	0.40	0.50	0.15	0.10–0.50	1.7–2.4	0.15	0.15	0.15	—	0.05	0.15
5252	REM	0.08	0.10	0.10	0.10	2.2–2.8	—	0.05	—	V 0.05	0.03	0.10

(continued)

TABLE 2.1 (continued)

Alloy designation	Chemical composition, %											
	Aluminium min.	Silicon max. or range	Iron max. or range	Copper max. or range	Manganese max. or range	Magnesium max. or range	Chromium max. or range	Zinc max. or range	Titanium max. or range	Other specific elements max. or range	Others (Note 1) max.	
											Each	Total
5356	REM	0.25	0.40	0.10	0.05–0.20	4.5–5.5	0.05–0.20	0.10	0.06–0.20	(Note 4)	0.05	0.15
5383	REM	0.25	0.25	0.20	0.7–1.0	4.0–5.2	0.25	0.40	0.15	Zr 0.20	0.05	0.15
5454	REM	0.25	0.40	0.10	0.50–1.0	2.4–3.0	0.05–0.20	0.25	0.20	—	0.05	0.15
5457	REM	0.08	0.10	0.20	0.15–0.45	0.8–1.2	—	0.05	—	V 0.05	0.03	0.10
5518	REM	0.40	0.40	0.10	0.40–1.0	4.0–4.9	0.05–0.25	0.25	0.15	—	0.05	0.15
5557	REM	0.10	0.12	0.15	0.10–0.40	0.40–0.8	—	—	—	V 0.05	0.03	0.10
6061	REM	0.40–0.8	0.7	0.15–0.40	0.15	0.8–1.2	0.04–0.35	0.25	0.15	—	0.05	0.15
6082	REM	0.7–1.3	0.50	0.10	0.40–1.0	0.6–1.2	0.25	0.20	0.10	—	0.05	0.15
6351	REM	0.7–1.3	0.50	0.10	0.40–0.8	0.40–0.8	—	0.20	0.20	—	0.05	0.15
7072	REM	Si + Fe 0.7	—	0.10	0.10	0.10	—	0.8–1.3	—	—	0.05	0.15
8006	REM	0.40	1.2–2.0	0.30	0.30–1.0	0.10	—	0.10	—	—	0.05	0.15
8008	REM	0.6	0.9–1.6	0.20	0.50–1.0	—	—	0.10	0.10	—	0.05	0.15
8011	REM	0.50–0.9	0.6–1.0	0.10	0.20	0.05	0.05	0.10	0.08	—	0.05	0.15

NOTES:

- 1 Except for unalloyed aluminium, analysis is regularly made only for the elements for which specific limits are shown. If, however, the presence of other elements is suspected to be, or in the course of routine analysis is indicated to be, in excess of the specified limits, further analysis is required to determine that these other elements are not in excess of the amount specified.
- 2 The aluminium content for unalloyed aluminium not made by a refining process is the difference between 100% and the sum of all other metallic elements present in amounts of 0.010% or more each, expressed to the second decimal.
- 3 The aluminium content for unalloyed aluminium made by a refining process is the difference between 100% and the sum of all other metallic elements present in amounts of 0.0010% or more, each expressed to the third decimal.
- 4 Be 0.0008% max. for welding electrodes and filler wire only.

TABLE 2.2
MECHANICAL PROPERTY REQUIREMENTS — SHEET AND PLATE

Alloy and temper	Thickness mm		Tensile strength MPa		0.2% proof stress MPa		Elongation $L_0=50\text{mm}$ or $5.65\sqrt{S_0}$ % min.
			Min.	Max.	Min.	Max.	
1050 — O	>0.15	≤0.50	—	95	—	—	15
	>0.50	≤0.80	—	95	—	—	20
	>0.80	≤1.30	—	95	—	—	25
	>1.30	≤6.00	—	95	—	—	30
1050 — H12 (see Note 1)	>0.25	≤0.50	80	110	—	—	4
	>0.50	≤0.80	80	110	—	—	5
	>0.80	≤1.30	80	110	—	—	6
	>1.30	≤2.60	80	110	—	—	8
	>2.60	≤6.00	80	110	—	—	12
1050 — H14 (see Note 1)	>0.25	≤0.30	100	125	—	—	2
	>0.30	≤0.50	100	125	—	—	3
	>0.50	≤0.80	100	125	—	—	4
	>0.80	≤1.30	100	125	—	—	5
	>1.30	≤2.60	100	125	—	—	6
	>2.60	≤12.00	100	125	—	—	8
1050 — H16 (see Note 1)	>0.15	≤0.50	115	140	—	—	2
	>0.50	≤0.80	115	140	—	—	3
	>0.80	≤1.30	115	140	—	—	4
	>1.30	≤4.00	115	140	—	—	5
1050 — H18	>0.15	≤0.50	130	—	—	—	1
	>0.50	≤0.80	130	—	—	—	2
	>0.80	≤1.30	130	—	—	—	3
	>1.30	≤1.60	130	—	—	—	4
	>1.60	≤3.25	130	—	—	—	5
1050 — H112	>6.00	≤25.00	60	—	—	—	30
1100 — O	>0.15	≤0.50	75	105	25 (see Note 2)	—	15
	>0.50	≤0.80	75	105	25 (see Note 2)	—	20
	>0.80	≤1.30	75	105	25 (see Note 2)	—	25
	>1.30	≤6.00	75	105	25 (see Note 2)	—	30
	>6.00	≤75.00	75	105	25 (see Note 2)	—	26
1100 — H12 (see Note 1)	>0.40	≤0.50	95	130	75 (see Note 2)	—	3
	>0.50	≤0.80	95	130	75 (see Note 2)	—	4
	>0.80	≤1.30	95	130	75 (see Note 2)	—	6
	>1.30	≤3.00	95	130	75 (see Note 2)	—	8
	>3.00	≤12.00	95	130	75 (see Note 2)	—	9
	>12.00	≤50.00	95	130	75 (see Note 2)	—	10

(continued)

TABLE 2.2 (continued)

Alloy and temper	Thickness mm		Tensile strength MPa		0.2% proof stress MPa		Elongation $L_0=50\text{mm}$ or $5.65\sqrt{S_0}$ % min.
			Min.	Max.	Min.	Max.	
1100 — H14 (see Note 1)	>0.25 ≤0.30		110	145	—	—	1
	>0.30 ≤0.50		110	145	95 (see Note 2)	—	2
	>0.50 ≤0.80		110	145	95 (see Note 2)	—	3
	>0.80 ≤1.30		110	145	95 (see Note 2)	—	4
	>1.30 ≤3.00		110	145	95 (see Note 2)	—	5
	>3.00 ≤12.00		110	145	95 (see Note 2)	—	6
	>12.00 ≤25.00		110	145	95 (see Note 2)	—	8
1100 — H16 (see Note 1)	>0.15 ≤0.50		130	165	115 (see Note 2)	—	1
	>0.50 ≤0.80		130	165	115 (see Note 2)	—	2
	>0.80 ≤1.30		130	165	115 (see Note 2)	—	3
	>1.30 ≤4.00		130	165	115 (see Note 2)	—	4
1100 — H18	>0.15 ≤0.50		150	—	—	—	1
	>0.50 ≤0.80		150	—	—	—	2
	>0.80 ≤1.30		150	—	—	—	3
	>1.30 ≤3.25		150	—	—	—	4
1100 — H112	>6.00 ≤12.00		90	—	50 (see Note 2)	—	9
	>12.00 ≤50.00		85	—	35 (see Note 2)	—	13
	>50.00 ≤75.00		80	—	30 (see Note 2)	—	18
1150 — O	>0.15 ≤0.50		—	105	—	—	15
	>0.50 ≤0.80		—	105	—	—	20
	>0.80 ≤1.30		—	105	—	—	25
	>1.30 ≤6.00		—	105	—	—	30
1150 — H12 (see Note 1)	>0.25 ≤0.50		80	120	—	—	3
	>0.50 ≤0.80		80	120	—	—	4
	>0.80 ≤1.30		80	120	—	—	6
	>1.30 ≤2.60		80	120	—	—	8
	>2.60 ≤6.00		80	120	—	—	9
1150 — H14 (see Note 1)	>0.25 ≤0.30		95	130	—	—	1
	>0.30 ≤0.50		95	130	—	—	2
	>0.50 ≤0.80		95	130	—	—	3
	>0.80 ≤1.30		95	130	—	—	4
	>1.30 ≤2.60		95	130	—	—	5
	>2.60 ≤6.00		95	130	—	—	6
1150 — H16 (see Note 1)	>0.15 ≤0.50		115	150	—	—	1
	>0.50 ≤0.80		115	150	—	—	2
	>0.80 ≤1.30		115	150	—	—	3
	>1.30 ≤2.60		115	150	—	—	4
	>2.60 ≤4.00		115	150	—	—	5
1150 — H18	>0.15 ≤0.50		135	—	—	—	1
	>0.50 ≤0.80		135	—	—	—	2
	>0.80 ≤1.30		135	—	—	—	3
	>1.30 ≤3.25		135	—	—	—	4

(continued)

TABLE 2.2 (continued)

Alloy and temper	Thickness mm		Tensile strength MPa		0.2% proof stress MPa		Elongation $L_0=50\text{mm}$ or $5.65\sqrt{S_0}$ % min.
			Min.	Max.	Min.	Max.	
1200 — O	>0.15	≤0.50	—	105	25 (see Note 2)	—	15
	>0.50	≤0.80	—	105	25 (see Note 2)	—	20
	>0.80	≤1.30	—	105	25 (see Note 2)	—	25
	>1.30	≤6.00	—	105	25 (see Note 2)	—	30
	>6.00	≤75.00	75	105	25 (see Note 2)	—	26
1200 — H12 (see Note 1)	>0.40	≤0.50	95	130	75 (see Note 2)	—	3
	>0.50	≤0.80	95	130	75 (see Note 2)	—	4
	>0.80	≤1.30	95	130	75 (see Note 2)	—	6
	>1.30	≤3.00	95	130	75 (see Note 2)	—	8
	>3.00	≤12.00	95	130	75 (see Note 2)	—	9
1200 — H14 (see Note 1)	>12.00	≤50.00	95	130	75 (see Note 2)	—	10
	>0.25	≤0.30	110	145	—	—	1
	>0.30	≤0.50	110	145	95 (see Note 2)	—	2
	>0.50	≤0.80	110	145	95 (see Note 2)	—	3
	>0.80	≤1.30	110	145	95 (see Note 2)	—	4
1200 — H16 (see Note 1)	>1.30	≤3.00	110	145	95 (see Note 2)	—	5
	>3.00	≤12.00	110	145	95 (see Note 2)	—	6
	>12.00	≤25.00	110	145	95 (see Note 2)	—	8
	>0.15	≤0.50	130	165	115 (see Note 2)	—	1
	>0.50	≤0.80	130	165	115 (see Note 2)	—	2
1200 — H18	>0.80	≤1.30	130	165	115 (see Note 2)	—	3
	>1.30	≤4.00	130	165	115 (see Note 2)	—	4
	>0.15	≤0.50	150	—	—	—	1
	>0.50	≤0.80	150	—	—	—	2
	>0.80	≤1.30	150	—	—	—	3
1200 — H112	>1.30	≤3.25	150	—	—	—	4
	>6.00	≤12.00	90	—	50 (see Note 2)	—	9
	>12.00	≤50.00	85	—	35 (see Note 2)	—	12
	>50.00	≤75.00	80	—	30 (see Note 2)	—	18
1350 — O	>0.15	≤75.00	—	95	15	—	—
1350 — H12	>0.40	≤50.00	80	—	60	—	—
1350 — H14	>0.22	≤50.00	95	—	70	—	—
1350 — H16	>0.15	≤4.00	110	—	75	—	—
1350 — H18	>0.15	≤3.25	125	—	80	—	—
2024 — O (see Note 3)	>0.25	≤6.00	—	220	—	95	12
2024 — T42 (see Note 4)	>0.25	≤0.50	425	—	260	—	12
	>0.50	≤6.00	425	—	260	—	15
2024 — T62 (see Note 4)	>0.25	≤6.00	440	—	345	—	5
2024 — T72 (see Note 5)	>0.25	≤6.00	415	—	315	—	5

(continued)