



SURFACE VEHICLE STANDARD

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Automotive Steel Castings

RATIONALE

The technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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1. **Scope**—This SAE Standard defines the specifications for steel castings used in the automotive and allied industries.

2. **References**

2.1 **Applicable Publications**—The following publications form a part of the standard to the extent specified herein. Unless otherwise indicated the latest revision of SAE publications shall apply.

2.1.1 ASTM PUBLICATIONS—Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

ASTM A 781/A 781M—Standard Specification for Castings, Steel and Alloy, Common Requirements, for General Industrial Use

ASTM A 370—Methods and Definitions for Mechanical Testing of Steel Products

ASTM A 802/A 802M—Standard Practice for Steel Castings, Surface Acceptance Standards, Visual Examination

ASTM A 488—Standard Practice for Steel Castings, Welding, Qualifications of Procedures and Personnel

ASTM A 781—Standard Specification for Castings, Steel and Alloy, Common Requirements, for General Industrial Use

ASTM E 1030—Standard Test Method for Radiographic Examination of Metallic Castings

ASTM E 446—Reference Radiographs for Steel Castings Up to 2 in. (51 mm) in Thickness

2.1.2 MSS PUBLICATIONS—Available from Manufacturers Standardization Society of the Valve and Fittings Industry, Inc., 127 Park Street, N.E., Vienna, Virginia 22180

MSS SP-55—Quality Standard for Steel Castings for Valves, Flanges and Fittings and Other Piping Components – Visual Method

3. **General Conditions for Delivery**

3.1 Material furnished to this specification shall conform to the requirements of specifications ASTM A781/A781M, including any supplementary requirements that are indicated in the order.

4. **Chemical Composition**

4.1 The composition shall comply with the requirements of Table 1.