



SURFACE VEHICLE STANDARD

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Chemical Compositions, Mechanical Property Limits, and
Dimensional Tolerances of SAE Wrought Aluminum Alloys

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 for wrought aluminum alloys provides sources of chemical and mechanical property data for a considerable range of alloys with varying properties, structures, and applications.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J454—General Data on Wrought Aluminum Alloys

SAE J993—Alloy and Temper Designation Systems for Aluminum

2.1.2 ANSI PUBLICATIONS—Available from ANSI, 11 West 42nd Street, New York, NY 10036.

ANSI H35.1—Alloy and Temper Designation Systems for Aluminum

ANSI H35.2—Dimensional Tolerances for Aluminum Mill Products

2.1.3 ASTM PUBLICATIONS—Available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

ASTM B 209—Specification for Aluminum-Alloy Sheet and Plate

ASTM B 210—Specification for Aluminum-Alloy Drawn Seamless Tubes

ASTM B 211—Specification for Aluminum-Alloy Bars, Rods, and Wire

ASTM B 221—Specification for Aluminum-Alloy Extruded Bars, Rods, Shapes, and Tubes

ASTM B 234—Specification for Aluminum-Alloy Drawn Seamless Tubes for Condensers and Heat Exchangers

ASTM B 236—Specification for Aluminum Bar for Electrical Purposes (Bus Bar)

ASTM B 241—Specification for Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube

ASTM B 247—Specification for Aluminum-Alloy Die and Hand Forgings

ASTM B 308—Specification for Aluminum-Alloy Standard Structural Shapes, Rolled or Extruded