

ALUMINUM ALLOY FORGINGS
4.3Zn - 3.3Mg - 0.6Cu - 0.2Mn - 0.2Cr (7079-T611)
Solution and Precipitation Heat Treated, Low Residual Stresses

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of 10-15-80. It is recommended that this specification not be specified for new designs.

This cover sheet should be attached to the initial issue of the subject specification.

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MATERIAL SPECIFICATIONS

AMS 4136

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 485 Lexington Ave., New York 17, N.Y.

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Revised

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1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. FORM: Die forgings, rolled rings, and forging stock.
3. APPLICATION: Primarily for structural machined parts subject to excessive warpage during machining due to residual stresses. In certain applications, die forgings of this material may be characterized by poor resistance to stress corrosion at the parting line.

4. COMPOSITION:

Zinc	3.8 - 4.8
Magnesium	2.9 - 3.7
Copper	0.40 - 0.8
Manganese	0.10 - 0.30
Chromium	0.10 - 0.25
Iron	0.40 max
Silicon	0.30 max
Titanium	0.10 max
Other Impurities, each	0.05 max
Other Impurities, total	0.15 max
Aluminum	remainder

5. CONDITION:

- 5.1 Die Forgings and Rolled Rings: Solution and precipitation heat treated. Quenching from the solution temperature shall be into water at 175 - 185 F (79.4 - 85.0 C)
- 5.1.2 Material may, after quenching from the solution heat treatment temperature, receive minor straightening in an amount necessary to meet the tolerances specified on the drawing.
- 5.2 Forging Stock: As fabricated.

6. TECHNICAL REQUIREMENTS:

6.1 Tensile Properties:

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