

ALUMINUM ALLOY IMPACT EXTRUSIONS
5.6Zn - 2.5Mg - 1.6Cu - 0.25Cr (75S-T6)

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of 11-10-67. It is recommended that this specification not be specified for new designs.

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

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of 7- 1-81. By this action, subject specification number and title will be deleted from the active specification index of Aerospace Material Specifications.

AERONAUTICAL MATERIAL SPECIFICATION

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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: Impact extrusions, and extruding stock.
3. APPLICATION: Primarily for parts requiring high strength and whose fabrication does not involve welding or forming.
4. COMPOSITION:

Zinc	5.1 - 6.1
Magnesium	2.1 - 2.9
Copper	1.2 - 2.0
Chromium	0.18 - 0.40
Iron	0.7 max
Silicon	0.5 max
Manganese	0.30 max
Titanium	0.20 max
Other Impurities, each	0.05 max
Other Impurities, total	0.15 max
Aluminum	remainder

5. CONDITION:

- 5.1 Impact Extrusions: Solution and precipitation heat treated.
- 5.2 Extruding Stock: As ordered by the impact extrusion manufacturer.

6. TECHNICAL REQUIREMENTS:

6.1 Impact Extrusions:

6.1.1 Tensile Properties:

Tensile Strength, psi	75,000 min
Yield Strength at 0.2% Offset or at 0.0164 in. in 2 in. Extension Under Load (E = 10,300,000), psi	64,000 min
Elongation, % in 4D	6 min

- 6.1.2 Hardness: Material shall have hardness not lower than Brinell 135 using 500 kg load and 10 mm ball or 1000 kg load and 9/16 in. ball, or not lower than Brinell 140 using 1000 kg load and 10 mm ball, or not lower than Rockwell B 84 or E 104.

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