

ALUMINUM ALLOY EXTRUSIONS
6.8Zn - 2.75Mg - 2.0Cu - 0.3Cr (7178-T6)

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of 4-26-68. 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.

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AEROSPACE

MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 4 Lexington Avenue, New York 17, N.Y.

AMS 4158A

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ALUMINUM ALLOY EXTRUSIONS **6.8Zn - 2.75Mg - 2.0Cu - 0.3Cr (7178-T6)**

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. **FORM:** Bars, rods, wire, and shapes.
3. **APPLICATION:** Primarily for parts which require high strength but do not require forming. Certain design and processing procedures may cause this material to be susceptible to stress corrosion cracking; ARP 823 recommends practices to minimize such conditions.

4. **COMPOSITION:**

	min	max
Zinc	6.3	7.3
Magnesium	2.4	3.1
Copper	1.6	2.4
Chromium	0.18	0.40
Iron	--	0.7
Silicon	--	0.50
Manganese	--	0.30
Titanium	--	0.20
Other Impurities, each	--	0.05
Other Impurities, total	--	0.15
Aluminum	remainder	

5. **CONDITION:** Solution and precipitation heat treated.
 - 5.1 Unless otherwise specified, extrusions shall be supplied with an as-extruded surface finish; light polishing to remove minor surface imperfections is permissible provided such imperfections can be removed within the dimensional tolerances.