



Tri-City Extrusion

6101

Aluminum alloy 6101 is widely used in the electrical conductor field, especially for the bus bar and switches used in substation applications. TCE offers 6101 in T6 temper for applications needing a conductivity of 55.0 % IACS minimum.

Chemical Composition Limits

<u>Alloy</u>	<u>Si</u>	<u>Fe</u>	<u>Cu</u>	<u>Mn</u>	<u>Mg</u>	<u>Cr</u>	<u>Zn</u>	<u>Others Each</u>	<u>Others Total</u>	<u>Aluminum</u>
6101	0.3-0.7	0.5	0.10	0.03	0.35-0.8	0.03	0.10	0.03	0.10	Remainder

TABLE 16.3 Property Limits—Rod, Bar, Tube, Pipe, Structural Profiles and Sheet ^④—Electric Conductors

PRODUCT	ALLOY AND TEMPER	SPECIFIED THICKNESS in.	TENSILE STRENGTH ksi				ELECTRICAL CONDUCTIVITY ^① min. percent IACS at 68F
			ULTIMATE		YIELD		
			min.	max.	min.	max.	
Extruded rod, bar, tube, pipe, and structural profiles	6101-T6	0.125 – 0.500	29.	..	25.	..	55.0

Note: Limits shown are the latest at time of publishing from Aluminum Association.

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