

EN AW-6101

ASTM 6101 · 6xxx · Al-Mg-Si (heat-treatable)

DESIGNATIONS

EN AW EN AW-6101	ASTM / US 6101	DIAMETERS 9.5 mm	Σ, MPA 150-260
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APPLICATIONS

Busbars, all-aluminium alloy conductors (AAAC), self-supporting insulated wires (ABC), ground wires.

ADVANTAGES

- High mechanical strength (up to 260 MPa in T6 temper)
- Heat-treatable alloy
- Ideal for overhead transmission lines
- Resistant to deformation under load
- ASTM 6101 standard

TEMPER STATES

TEMPER	DIAMETER, MM	TENSILE STRENGTH, MPA	ELONGATION, MIN, %	RESISTIVITY, MAX, Ω·MM ² /M	CONDUCTIVITY, MIN, % IACS
T1	9.5	150-180	15	0.03500	49.2
T4	9.5	180-205	8	0.03500	49.2
T6	9.5	220-260	6	0.03600	47.5

CHEMICAL COMPOSITION, %

DESIGNATIONS	MIN %	MAX %
Si	0.300	0.700
Fe	—	0.500
Cu	—	0.100
Mn	—	0.030
Mg	0.350	0.800
Cr	—	0.030
Zn	—	0.100
B	—	0.060

DESIGNATIONS	MIN %	MAX %
Al (Al, min)		balance
Other impurities — each		≤ 0.03%
Other impurities — total		≤ 0.10%

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