

EN AW-6201

ASTM 6201 · 6xxx · Al-Mg-Si (heat-treatable)

DESIGNATIONS

EN AW EN AW-6201	ASTM / US 6201	DIAMETERS 9.5 mm	Σ , MPA 160-330
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APPLICATIONS

All-aluminium alloy conductors (AAAC) for high-mechanical-strength overhead transmission lines.

ADVANTAGES

- Maximum strength in the 6xxx series (up to 330 MPa)
- High fatigue endurance
- T81 temper — optimal strength/conductivity balance
- Compliant with IEC and ASTM

TEMPER STATES

TEMPER	DIAMETER, MM	TENSILE STRENGTH, MPA	ELONGATION, MIN, %	RESISTIVITY, MAX, $\Omega \cdot \text{MM}^2/\text{M}$	CONDUCTIVITY, MIN, % IACS
T1	9.5	160-205	17	0.03600	47.8
T4	9.5	205-330	8	0.03600	47.8
T81	9.5	315-330	3	0.03700	46.5

CHEMICAL COMPOSITION, %

DESIGNATIONS	MIN %	MAX %
Si	0.500	0.900
Fe	—	0.500
Cu	—	0.100
Mn	—	0.030
Mg	0.600	0.900
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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