

EN AW-6061

ASTM 6061 · 6xxx · Al-Mg-Si (heat-treatable)

DESIGNATIONS

EN AW EN AW-6061	ASTM / US 6061	DIAMETERS 9.5 mm	Σ , MPA 240-310
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APPLICATIONS

Structural-electrical applications, fasteners, structural members.

ADVANTAGES

- Versatile structural alloy
- High strength in T6 temper
- Good weldability
- Corrosion-resistant

TEMPER STATES

TEMPER	DIAMETER, MM	TENSILE STRENGTH, MPA	ELONGATION, MIN, %	RESISTIVITY, MAX, $\Omega \cdot \text{MM}^2/\text{M}$	CONDUCTIVITY, MIN, % IACS
T4	9.5	240-290	8	0.04300	40
T6	9.5	290-310	8	0.04400	40

CHEMICAL COMPOSITION, %

DESIGNATIONS	MIN %	MAX %
Si	0.400	0.800
Fe	—	0.700
Cu	0.150	0.400
Mn	—	0.150
Mg	0.800	1.200
Cr	0.040	0.350
Zn	—	0.250
Ti	—	0.150
Al (Al, min)		balance

DESIGNATIONS	MIN %	MAX %
Other impurities — each		≤ 0.05%
Other impurities — total		≤ 0.15%

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