

EN AW-AI59

6xxx · Al-Mg-Si (heat-treatable)

DESIGNATIONS

EN AW EN AW-AI59	ASTM / US —	DIAMETERS 9.5 mm	Σ, MPA 140-180
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APPLICATIONS

Self-supporting insulated wires (ABC) for low- and medium-voltage distribution networks.

ADVANTAGES

- Composition optimised for ABC
- Balance of strength and conductivity
- T1 and T4 tempers for different installation conditions
- High corrosion resistance

TEMPER STATES

TEMPER	DIAMETER, MM	TENSILE STRENGTH, MPA	ELONGATION, MIN, %	RESISTIVITY, MAX, Ω·MM ² /M	CONDUCTIVITY, MIN, % IACS
T1	9.5	140-160	12	0.03193	54
T4	9.5	160-180	8	0.03200	53.5

CHEMICAL COMPOSITION, %

DESIGNATIONS	MIN %	MAX %
Si	0.300	0.600
Fe	—	0.450
Cu	—	0.100
Mg	0.300	0.600
Zn	—	0.100
Al (Al, min)		balance
Other impurities — each		≤ 0.03%
Other impurities — total		≤ 0.10%

Alusilk

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