

# EN AW-AI59

6xxx · Al-Mg-Si (heat-treatable)

## DESIGNATIONS

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

## 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 <sup>2</sup> /M	CONDUCTIVITY, MIN, % IACS
<b>T1</b>	9.5	140-160	12	0.03193	54
<b>T4</b>	9.5	160-180	8	0.03200	53.5

## CHEMICAL COMPOSITION, %

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

**Alusilk**

PART OF ITS GROUP

Coiled Aluminium · Connected Future

HEADQUARTERS

Dubai Silicon Oasis, Dubai, UAE

+971 50 153 0202

info@alusilk.ae

UZBEKISTAN BRANCH

7 Abdulla Qodiriy St · Yunusobod district ·

Tashkent

+998 97 341 2222

alusilk.uz · alusilk.ae