

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 |
|----------------------------|--------------------------|----------------------------|--------------------------|

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, Ω·MM ² /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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