

EN AW-8176

ASTM 8176 · 8xxx · Al-Fe (low creep)

DESIGNATIONS

| | | | |
|----------------------------|--------------------------|---------------------------------|---------------------------------|
| EN AW EN AW-8176 | ASTM / US 8176 | DIAMETERS 9.0; 9.5 mm | Σ , MPA 60-140 |
|----------------------------|--------------------------|---------------------------------|---------------------------------|

APPLICATIONS

Building cables, installation wires for residential and commercial buildings.

ADVANTAGES

- Low creep at terminations
- Flexibility — easy installation
- Meets UL and IEC requirements
- Cost-effective alternative to copper

TEMPER STATES

| TEMPER | DIAMETER, MM | TENSILE STRENGTH, MPA | ELONGATION, MIN, % | RESISTIVITY, MAX, $\Omega \cdot \text{MM}^2/\text{M}$ | CONDUCTIVITY, MIN, % IACS |
|----------|--------------|-----------------------|--------------------|---|---------------------------|
| F | 9.0; 9.5 | 115-140 | 10 | 0.02855 | 60.4 |
| O | 9.5 | 60-110 | 30 | 0.02860 | 61 |

CHEMICAL COMPOSITION, %

| DESIGNATIONS | MIN % | MAX % | |
|-------------------------|-------|-------|----------------|
| Si | | 0.030 | 0.150 |
| Fe | | 0.400 | 1.000 |
| Cu | | — | 0.040 |
| Mn | | — | 0.030 |
| Zn | | — | 0.100 |
| Ga | | — | 0.030 |
| V | | — | 0.020 |
| Al (Al, min) | | | balance |
| Other impurities — each | | | ≤ 0.05% |

| DESIGNATIONS | MIN % | MAX % |
|--------------------------|-------|---------|
| Other impurities — total | | ≤ 0.15% |

Alusilk

PART OF ITS GROUP

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