

# EN AW-8076

ASTM 8076 · 8xxx · Al-Fe (low creep)

## DESIGNATIONS

|                            |                          |                            |                         |
|----------------------------|--------------------------|----------------------------|-------------------------|
| EN AW<br><b>EN AW-8076</b> | ASTM / US<br><b>8076</b> | DIAMETERS<br><b>9.5 mm</b> | Σ, MPA<br><b>60-145</b> |
|----------------------------|--------------------------|----------------------------|-------------------------|

## APPLICATIONS

Thin flexible cores for automotive and aerospace cables, rolling-stock cables.

## ADVANTAGES

- High flexibility for thin multi-strand designs
- Good fatigue properties
- Used in automotive and aerospace industries
- Low cable weight

## TEMPER STATES

| TEMPER   | DIAMETER, MM | TENSILE STRENGTH, MPA | ELONGATION, MIN, % | RESISTIVITY, MAX, Ω·MM <sup>2</sup> /M | CONDUCTIVITY, MIN, % IACS |
|----------|--------------|-----------------------|--------------------|--|---------------------------|
| <b>F</b> | 9.5          | 90-145                | 8                  | 0.02890                                | 60                        |
| <b>O</b> | 9.5          | 60-110                | 20                 | 0.02880                                | 60.2                      |

## CHEMICAL COMPOSITION, %

| DESIGNATIONS            | MIN % | MAX %          |
|-------------------------|-------|----------------|
| <b>Si</b>               | —     | 0.400          |
| <b>Fe</b>               | 0.600 | 0.900          |
| <b>Cu</b>               | —     | 0.040          |
| <b>Mn</b>               | —     | 0.040          |
| <b>Mg</b>               | 0.080 | 0.220          |
| <b>Zn</b>               | —     | 0.050          |
| <b>Ti</b>               | —     | 0.030          |
| <b>Al (Al, min)</b>     |       | <b>balance</b> |
| Other impurities — each |       | ≤ 0.03%        |

| DESIGNATIONS             | MIN % | MAX %   |
|--------------------------|-------|---------|
| 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