

# EN AW-8130

ASTM 8130 · 8xxx · Al-Fe (low creep)

## DESIGNATIONS

|                            |                          |                                 |                         |
|----------------------------|--------------------------|---------------------------------|-------------------------|
| EN AW<br><b>EN AW-8130</b> | ASTM / US<br><b>8130</b> | DIAMETERS<br><b>9.0; 9.5 mm</b> | Σ, MPA<br><b>60-130</b> |
|----------------------------|--------------------------|---------------------------------|-------------------------|

## APPLICATIONS

High-conductivity building cables, medium-voltage power cables.

## ADVANTAGES

- High conductivity for the 8xxx series (up to 61.5% IACS)
- Good mechanical properties
- Stable performance in energy systems

## TEMPER STATES

| TEMPER   | DIAMETER, MM | TENSILE STRENGTH, MPA | ELONGATION, MIN, % | RESISTIVITY, MAX, Ω·MM <sup>2</sup> /M | CONDUCTIVITY, MIN, % IACS |
|----------|--------------|-----------------------|--------------------|--|---------------------------|
| <b>F</b> | 9.0; 9.5     | 85-130                | 10                 | 0.02855                                | 61.2                      |
| <b>O</b> | 9.5          | 60-110                | 25                 | 0.02850                                | 61.4                      |

## CHEMICAL COMPOSITION, %

| DESIGNATIONS             | MIN % | MAX %          |
|--------------------------|-------|----------------|
| <b>Si</b>                | —     | 0.150          |
| <b>Fe</b>                | 0.400 | 1.000          |
| <b>Cu</b>                | 0.050 | 0.150          |
| <b>Mn</b>                | —     | 0.010          |
| <b>Mg</b>                | —     | 0.010          |
| <b>Zn</b>                | —     | 0.100          |
| <b>Al (Al, min)</b>      |       | <b>balance</b> |
| Other impurities — each  |       | ≤ 0.03%        |
| Other impurities — total |       | ≤ 0.10%        |

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