

EN AW-1370

ASTM 1370 · 1xxx · Pure aluminium

DESIGNATIONS

EN AW EN AW-1370	ASTM / US 1370	DIAMETERS 9.0; 9.5; 12; 15; 19; 23; 25 mm	Σ , MPA 60-150
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APPLICATIONS

High-conductivity cable cores — HV transmission conductors, power cables, bare overhead lines.

ADVANTAGES

- High electrical conductivity (up to 63.3% IACS)
- Easy to draw without breakage
- Wide diameter range (9.0–25 mm)
- Eight temper states — O, H11–H14, T1–T3
- Conformance to EN AW and ASTM

TEMPER STATES

TEMPER	DIAMETER, MM	TENSILE STRENGTH, MPA	ELONGATION, MIN, %	RESISTIVITY, MAX, $\Omega \cdot \text{MM}^2/\text{M}$	CONDUCTIVITY, MIN, % IACS
O	9.0; 9.5	60–85	30	0.02725	63.3
H11	9.0; 9.5; 12; 15; 19; 23; 25	80–95	20	0.02785	61.9
H12	9.5; 12; 15	95–110	15	0.02790	61.7
H13	9.5; 12; 15	105–120	10	0.02794	61.7
H14	9.5	120–130	10	0.02790	61.7
T1	9.5; 12; 15	98–125	12	0.02800	61.6
T2	9.5; 12; 15	105–135	10	0.02810	61.4
T3	9.5	110–150	5	0.02820	61.1

CHEMICAL COMPOSITION, %

DESIGNATIONS	MIN %	MAX %
Si	—	0.100

DESIGNATIONS	MIN %	MAX %
Fe	—	0.250
Cu	—	0.020
Mn	—	0.010
Mg	—	0.020
Cr	—	0.010
Zn	—	0.040
Ti	—	0.020
Ga	—	0.030
B	—	0.020
V	—	0.050
Al (Al, min)		≥ 99.70%
Other impurities — each		≤ 0.03%
Other impurities — total		≤ 0.10%