

EN AW-1080A

ASTM 1080 · 1xxx · Pure aluminium

DESIGNATIONS

EN AW EN AW-1080A	ASTM / US 1080	DIAMETERS 9.5; 12 mm	Σ, MPA 65-145
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APPLICATIONS

High-purity wires and special applications requiring maximum conductivity and minimal impurity content.

ADVANTAGES

- High purity (Al ≥ 99.80%)
- Maximum electrical conductivity in the 1xxx series
- Low impurity content — stable quality
- Suitable for specialty cable applications

TEMPER STATES

TEMPER	DIAMETER, MM	TENSILE STRENGTH, MPA	ELONGATION, MIN, %	RESISTIVITY, MAX, Ω·MM ² /M	CONDUCTIVITY, MIN, % IACS
O	9.5	60-85	30	0.02725	63.3
H11	9.5; 12	80-100	20	0.02785	61.9
H12	9.5; 12	95-110	15	0.02790	61.7
H13	9.5; 12	105-120	10	0.02794	61.7
H14	9.5; 12	115-145	5	0.02801	61.5

CHEMICAL COMPOSITION, %

DESIGNATIONS	MIN %	MAX %
Si	—	0.150
Fe	—	0.150
Cu	—	0.030
Mn	—	0.020
Mg	—	0.020
Zn	—	0.060

DESIGNATIONS	MIN %	MAX %
Ti	—	0.020
Ga	—	0.030
V	—	0.050
Al (Al, min)		≥ 99.80%
Other impurities — each		≤ 0.03%
Other impurities — total		≤ 0.10%

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