Data Sheet

Copper E-Cu57 / 2.0060 / E-Cu58 / 2.0065

Alternative Designations

E-Cu58Ms58

Key Features

High conductivity • Good machinability • Durable • Flexible

Description

It is known for its high conductivity and for its resistance to corrosion. This makes it an ideal choice for use in electrical wiring and other electrical applications. Its good machinability makes it easy to shape into different forms; profiles, sheets and plates. It is heavily used in the electrical/electronics industry. It is a very strong metal, which means that it can withstand a lot of wear and tear.

Mechanical Properties

Yield strength	69 – 365 MPa
Tensile strength	235 – 395 MPa
Elongation at break	4 – 45 %
Hardness	70 – 120
Module of elasticity	115 GPa

Physical Properties

Density	8.9 g/cm³
Electrical conductivity	100 m/Ω · mm²
Coefficient of thermal expansion	17.5 K-1 · 10-6
Thermal conductivity	388 W/m · K
Specific heat capacity	380 J/kg · K

Chemical Composition

Al	-	N	-
Bi	0.0005%	Nb	-
C	-	Ni	-
Cd	-	O	0.04%
Co	-	P	-
Cr	-	Pb	0.005%
Cu	99.9%	S	-
Fe	-	Si	-
H	-	Sn	-
Mg	-	Ti	-
Mn	-	V	-
Mo	-	Zn	-

Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.