

	0.0			20	262	131	-	-	18	-	-	-	-	-	-	-	0.0
As Permanent Mold Cast																	
M05	0.0	0	SMIN	68	34	16	-	-	24	-	-	-	-	-	-	-	0.0
	0.0			20	234	110	-	-	24	-	-	-	-	-	-	-	0.0
As Sand Cast																	
M01	0.0	0	SMIN	68	34	16	-	-	22	-	-	-	-	-	-	-	0.0
	0.0			20	234	110	-	-	22	-	-	-	-	-	-	-	0.0

*Fatigue Strength: 100 x 10⁶ cycles,
unless indicated as [N]X 106.

Physical Properties

<>	US Customary	Metric
Melting Point - Liquidus	1810 F	988 C
Melting Point - Solidus	1518 F	826 C
Incipient Melting	600 F	315 C
Density	0.312 lb/in ³ at 68 F	8.64 gm/cm ³ @ 20 C
Specific Gravity	8.64	8.64
Electrical Resistivity	72.5 ohms-cmil/ft @ 68 F	12.0 microhm-cm @ 20 C
Electrical Conductivity	14 % IACS @ 68 F	0.083 MegaSiemens/cm @ 20 C
Thermal Conductivity	40.2 Btu · ft/(hr · ft ² ·oF) at 68 F	69.6 W/m · oK at 20 C
Coefficient of Thermal Expansion	10.0 · 10 ⁻⁶ per oF (68-572 F)	18.0 · 10 ⁻⁶ per oC (20-300 C)
Specific Heat Capacity	0.09 Btu/lb·oF at 68 F	377.1 J/kg · oK at 293 K
Modulus of Elasticity in Tension	14000 ksi	96500 MPa
Magnetic Permeability	1.0	1.0

Tempers Most Commonly Used No information available.

Typical Uses

Architecture

Ornamental Castings

Building

Cooling Equipment, Heating Equipment

Fasteners

Nuts

Industrial

Fittings Used to 550 F, Gears, Bushings, Bearings, Pump Impellers, Pumps Used to 550 F, Cryogenic Valves, Valves for Water Meters, Medium Pressure Hydraulic Equipment, Piston Rings, Valve Components

Marine

Marine Castings

Plumbing

Medium Pressure Steam Equipment to 550 F

The above data used by permission from the **Copper Development Association Inc.** A complete Description of all UNS Copper Alloys is available at www.copper.org