

CuVerro® White Bronze

UNS C71000 ALLOY DATA

Chemical Composition⁽¹⁾⁽²⁾:

Element	Cu ⁽³⁾	Ni ⁽⁴⁾	Fe	Mn	Zn ⁽⁵⁾	Pb ⁽⁵⁾	T.O.E. ⁽⁶⁾
Min./Max.	73.5% Min	19.0-23.0%	0.5-1.0%	1.0% Max	1.0%	0.05% Max	0.5% Max
Nominal	79%	21%	--	--	--	--	--

(1) Chemical composition per ASTM B-543.

(2) EPA Registration # 85353-3

(3) Cu value includes Ag.

(4) Ni value includes Co.

(5) The following additional maximum limits are applicable when the product will be used for subsequent welding operations and are so specified by the purchaser - 0.50% Zn, 0.02% P, 0.02% Pb, 0.02% S, and 0.05% C.

(6) Copper plus the sum of named elements - 99.5% Minimum.

Physical Properties:

Property	U.S. Customary	Metric
Melting Point - Liquidus	2190 °F	1199 °C
Melting Point - Solidus	2100 °F	1149 °C
Density	0.323 lbs/cu in @ 68F	8.94 gm/cu cm @ 20C
Specific Gravity	8.94	8.94
Electrical Resistivity (Ann'l'd)	160 Ohms (cir mil/ft) @ 68F	26.6 microhm-cm @ 20C
Electrical Conductivity (Ann'l'd)	6.5% IACS @ 68F	0.038 megmho/cm @ 20C
Thermal Conductivity	21 BTU/sq ft/ft/hr/°F @ 68F	36.3 W/m-°K @ 20C
Coefficient of Thermal Expansion	9.1 x 10 ⁻⁶ per °F (68-572F)	16.4 x 10 ⁻⁶ per °C (20-300C)
Modulus of Elasticity	20,000,000 psi	138,000 Mpa
Modulus of Rigidity	7,500,000 psi	51,700 Mpa

Mechanical Properties⁽¹⁾:

Temper ⁽²⁾	Tensile Strength	Yield Strength	Elongation
Annealed	43,000-53,000 psi	16,000-26,000 psi	33-47 %
Welded from Annealed Strip	47,000-63,000 psi	42,000-60,000 psi	23-33 %

(1) Mechanical properties are approximate and for reference only.

(2) The Welded from Annealed Strip temper is standard and will be supplied unless otherwise specified.

Typical Uses:

***Healthcare - Antimicrobial Grab Bars, IV Poles, Hand Railing,
Medical Cart Handles, Door Pulls & more...***