

CuVerro® Rose

UNS C70600 ALLOY DATA

Chemical Composition⁽¹⁾⁽²⁾:

Element	Cu ⁽³⁾	Ni ⁽⁴⁾	Fe	Mn	Zn ⁽⁵⁾	Pb ⁽⁵⁾	T.O.E. ⁽⁶⁾
Min./Max.	86.5% Min	9.0-11.0%	1.0-1.8%	1.0% Max	1.0%	0.05% Max	0.5% Max
Nominal	88.6%	10.0%	1.4%	--	--	--	--

(1) Chemical composition per ASTM B-543.

(2) EPA Registration # 85353-5

(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	2100 °F	1150 °C
Melting Point - Solidus	2010 °F	1100 °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)	115 Ohms (cir mil/ft) @ 68F	19.1 microhm-cm @ 20C
Electrical Conductivity (Ann'l'd)	9% IACS @ 68F	0.0522 megmho/cm @ 20C
Thermal Conductivity	26 BTU/sq ft/ft/hr/°F @ 68F	0.11 cal/sq cm/cm/sec/°C @ 20C
Coefficient of Thermal Expansion	9.5 x 10 ⁻⁶ per °F (68-572F)	17.1 x 10 ⁻⁶ per °C (20-300C)
Modulus of Elasticity	18,000,000 psi	12,700 kg/sq mm
Modulus of Rigidity	6,800,000 psi	4,800 kg/sq mm

Mechanical Properties⁽¹⁾:

Temper ⁽²⁾	Tensile Strength	Yield Strength	Elongation
Annealed	40,000-50,000 psi	15,000-25,000 psi	36-47 %
Welded from Annealed Strip	48,000-64,000 psi	42,000-60,000 psi	26-36 %

(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....***