

CuVerro® surfaces provide the strength, performance and clean look that high-touch surfaces demand. Available in sheet, strip, ingot, rod and tube CuVerro® III - White Bronze offers designers the freedom to explore a wide variety of touch surfaces and products solutions. CuVerro® alloys are made with antimicrobial copper—the only solid surface registered by the EPA to kill 99.9% of bacteria\* that cause infections, within two hours. For more information contact Olin Brass Market Development Engineering at 1-877-311-CuVerro (2883), CuVerro.com or email us at CuVerro@olinbrass.com.

## Copper Alloy C71000

### Chemical Composition

<b>Copper<sup>1</sup></b>	<b>Remainder</b>
<b>Nickel<sup>2</sup></b>	<b>19.0 - 23.0%</b>
<b>Iron</b>	<b>0.5 - 1.0%</b>
<b>Manganese</b>	<b>1.0% MAX</b>
<b>Zinc</b>	<b>1.0% MAX</b>
<b>Lead</b>	<b>0.05% MAX</b>



<sup>1</sup> Cu includes Ag; Copper plus named elements, 99.5%

<sup>2</sup> Ni Values Include Co

### Physical Properties

	English Units	Metric Units
Density	0.323 lb/in <sup>3</sup> @ 68°F	8.94 g/cm <sup>3</sup>
Thermal Conductivity	21 BTU-ft/ft <sup>2</sup> -hr-°F	36 W/mK
Electrical Resistivity	160 ohm circ mils/ft	26.6 microhm-cm
Electrical Conductivity (annealed)	6.5% IACS	.038 megamho/cm
Modulus of Elasticity	20,000,000 psi	138 kN/mm <sup>2</sup>
Coeff. Of Thermal Expansion 68-572°F (20-300°C)	9.1 PPM/°F	16.4 PPM/°C

### Mechanical Properties

Temper <sup>1</sup>	Tensile Strength		Yield Strength <sup>2</sup>		% Elongation <sup>3</sup>	Typical 90° Bend Formability GW/BW <sup>4</sup>	
	ksi	N/mm <sup>2</sup>	ksi	N/mm <sup>2</sup>			
Soft(Annealed)	43-53	295-365	21	145	40	-	-
1/4 Hard	47-63	325-435	48	330	15	0.5	0.5
1/2 Hard	56-70	385-480	52	360	5	1.0	1.0
Hard	67-79	460-545	71	490	2	1.5	2.0

<sup>1</sup> Mechanical properties subject to change.

<sup>2</sup> Nominal Values

<sup>3</sup> Nominal Values in 2" (51mm)

<sup>4</sup> R/T = Bend Radius/Material Thickness <0.016" (0.4mm) thick, 11/16 (17.5mm) wide.

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