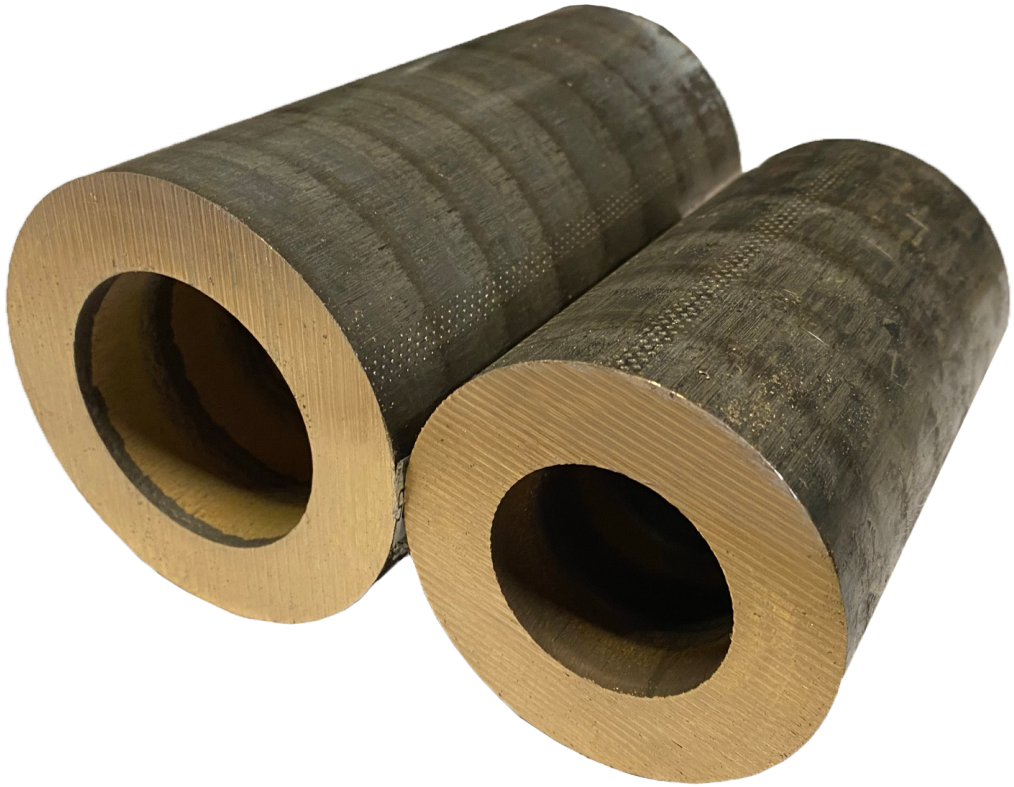
COPPER NICKEL-TIN BRONZE (C72900)

TYPICAL USES

Hardiall is used in aircrafts in various components thanks to its outstanding physical and mechanical properties, matching the stringent needs of the aircraft and aerospace industries. Because of these same characteristics, C729 is in high demand for the oil and gas industry, and others as well.



CONTACT US

360 Sheldon Drive
Cambridge, ON N1T 1A9
519-622-7900
barstock@bearingbronze.com

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TYPICAL USES

Product Category	Product	Reason
Electrical	Connectors	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, Resistant to Oxidation, Formability, High Modulus of Elasticity, Very High Strength, Resistance to Stress Relaxation
	Contacts	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, Resistant to Oxidation, Formability, High Modulus of Elasticity, Very High Strength, Resistance to Stress Relaxation
	Controls	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, High Strength
	Miniaturized Sockets	Corrosion Resistance, Formability, High Modulus of Elasticity, Very High Strength
	Relay Elements	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, Resistant to Oxidation, Formability, High Modulus of Elasticity, Very High Strength, Resistance to Stress Relaxation
	Switches	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, High Strength
Industrial	Springs	Corrosion Resistance, Resistant to Oxidation, Formability, High Modulus of Elasticity, Very High Strength, Resistance to Stress Relaxation
	Wire	Corrosion Resistance, Resistant to Oxidation, Formability, High Modulus of Elasticity, Very High Strength

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MECHANICAL PROPERTIES

Form	Temper Code	Tensile Strength (ksi)	YS-0.2% Offset (ksi)	YS-0.5% Ext (ksi)	YS-0.05% Offset	Elongation (%)
Strip	TS02	145 Min for Standard			125 Min for Standard	3 Typ
	TS01	130 Min for Standard			105 Min for Standard	4 Typ
	TS03	155 Min for Standard			135 Min for Standard	2 Typ
	TS04	165 Min for Standard			145 Min for Standard	2 Typ
	TM02	105 Min for Standard	90 Min for Standard		80 Min for Standard	15 Typ
	TM00	95 Min for Standard	75 Min for Standard		70 Min for Standard	22 Typ
	TM04	115 Min for Standard	105 Min for Standard		95 Min for Standard	10 Typ
	TM08	150 Min for Standard	140 Min for Standard		125 Min for Standard	2 Typ
	TM06	130 Min for Standard	120 Min for Standard		105 Min for Standard	6 Typ
	TB00	64 Min for Standard			24 Min for Standard	32 Typ
	TD02	85 Min for Standard				8 Typ
	TD01	75 Min for Standard			50 Min for Standard	18 Typ
	TD03	95 Min for Standard			80 Min for Standard	3 Typ
	TD04	100 Min for Standard			85 Min for Standard	
	TX00	120 Min for Standard			95 Min for Standard	6 Typ

* Measured at room temperature, 68°F (20°C).

CHEMICAL PROPERTIES

Elements									
Cu(1,2)	Pb(3)	Sn	Zn	Fe	Ni(4)	Mg	Mn	Nb	
Min (%)			7.5			14.5			
Max (%)	Rem	0.02	8.5	0.5	0.5	15.5	0.15	0.3	0.1

(1) Cu + Sum of Named Elements 99.7% min.
(2) Cu value includes Ag.
(3) 0.005% Pb max. for hot rolling.
(4) Ni value includes Co.

FABRICATION PROPERTIES

Machining Technique	Suitability
Soldering	Excellent
Brazing	Excellent
Oxyacetylene Welding	Good
Gas Shielded Arc Welding	Excellent
Coated Metal Arc Welding	Excellent
Spot Weld	Excellent
Seam Weld	Excellent
Butt Weld	Excellent
Capacity for Being Cold Worked	Excellent
Capacity for Being Hot Formed	Good

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