



SHREE EXTRUSIONS LIMITED



CuZn21Si3P

ECO BRASS

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ASTM	C69300
JIS	6931
EN	CW724R
ISO	CuZn21Si3P

C69300 Lead-free ECO BRASS. It is a great replacement for leaded fittings and its corrosion resistance properties make it an excellent solution for water supply and plumbing applications. also has good machinability, excellent hot forgeability, easily accepts solder and brazing, and has excellent polishing and plating capabilities.

TYPICAL USES for C86300 High Tensile Manganese Bronze:

Industrial: Plumbing: Stop Valves, PEX fittings, Ball valves, Commercial and Residential water faucet parts. Automotive: Fluid Connectors, Sensor Bodies, Thermostat Parts. Industrial: Automatic Screw Machine Parts, Bolts, Condenser Tube Plate, Nuts, Pneumatic Fittings, Pump Parts, Screw Machine Product, Valve Stems, Valve Bodies for Water.

CHEMICAL COMPOSITION

	Cu	Pb	Sn	Zn	Fe	Ni	P	Si	Mn
Min	73.0	-	-	-	-	-	0.04	2.7	-
Max	77.0	0.09	0.20	Rem	0.10	0.1	0.15	3.4	0.10

PHYSICAL PROPERTIES

Melting Point – Liquidus °F	1616
Melting Point – Solidus °F	1571
Density lb./cu in. at 68°F	0.3
Specific Gravity	8.3
Electrical Conductivity*% IACS at 68°F	8
Thermal Conductivity Btu/ sq. ft/ ft.Hr/ °F at 68°F	21.8
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	10.4
Specific Heat Capacity Btu/ lb. /°F at 68°F	0.09
Modulus of Elasticity in Tension (ksi)	15200

SIZES AVAILABLE:

ROUND RODS	1.2 mm to 250 mm
HEX	5 mm to 65 mm
SQUARE	4 mm to 60 mm
FLAT	4 mm Min Thickness and max Width 120 mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

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NABL / ISO : 15189
Accreditation Number M - 0000



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