



# SHREE EXTRUSIONS LIMITED



## C61800 ALUMINUM BRONZE

### EQUIVALENT SPECIFICATIONS

European

CuAl10Fe1

C61800 is an aluminum bronze containing nominally 89% copper, 10% aluminum and 1% iron. It has moderate strength, moderate ductility and can be hot worked or cold worked successfully. It has good resistance to corrosion in many environments. Its numerous uses include bushings, bearings, corrosion-resistant components and welding rod

#### TYPICAL USES :

Electrode, Welding Rods, Welding wire

#### CHEMICAL COMPOSITION

	Cu(1)	Al	Fe	Pb	Si	Zn
Min./Max.	Rem.	8.5-11.0	.50-1.5	.02	.10	.02
Nominal	89.0	10.0	1.0	-	-	-

#### PHYSICAL PROPERTIES

Melting Point - Liquidus °F	1913
Melting Point - Solidus °F	1904
Density lb/cu in. at 68 °F	0.272
Specific Gravity	7.53
Electrical Conductivity % IACS at 68 °F	13
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68 °F	37
Coefficient of Thermal Expansion 68-572 10 <sup>-6</sup> per °F (68 - 572 °F)	9
Specific Heat Capacity Btu/ lb / °F at 68 °F	0.09
Modulus of Elasticity in Tension ksi	17000
Modulus of Rigidity ksi	6400

#### SIZES AVAILABLE :

ROUND RODS	8mm To 100 mm
HEX	10mm To 60mm
SQUARE	10mm To 60mm
FLAT	10mm Min Thickness and max Width 120mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

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