DESCRIPTION

Brass is an alloy mainly consisting of copper and zinc. Brass alloys can be easily shaped and are available in various colors. Brass has high thermal conductivity. UNS C37710 forging brass alloys have good forgeability. They are available in the form of rod.

The following datasheet gives details about UNS C37710 brass alloys.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu with the	56.50	60.00
Pb	1.00	3,00
Fe The	HE WE BUILDING - HE	0.30
Total Others	RATHE - LINE	0.50
Zn de la	Rem	ainder

MECHANICAL PROPERTIES

Mechanical properties established by agreement between the manufacturers and the purchaser.

PHYSICAL PROPERTIES

Molting Daint Biguidua0F	U"
Melting Point - Liquidus°F	1640
Melting Point - Solidus°F	1620
Densitylb/cu in. at 68°F	0.305
Specific Gravity	8.44
Electrical Conductivity% IACS at 68°F	27
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	69
Coefficient of Thermal Expansion 68-57210-6 per °F (68 – 572°F)	11.5
Specific Heat CapacityBtu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidityksi	5600

FABRICATION PROPERTIES

Suitability
Excellent
Good
Not Recommended
Fair
Poor
Excellent
100
80

TYPICAL USES

- > Builders Hardware
- > Building
- > Consumer
- > Electrical
- Industrial