



ARCOTECH

AL-60(CuZn40) ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)

Cu	59.00-61.00
Fe	≤0.070
Pb	≤0.100
Ni	≤0.100
Zn	REM

ALLOY DESIGNATIONS

UNS	C28000
EN	CuZn40
JIS	C2800
BS	CZ109

COIL/ SHEET SPECIFICATIONS

Thickness (mm)	0.050- 4.0
Width (mm)	6.00 - 406
Inner Diameter (mm)	100-150-200-300-400-500
Coil Weight (Kg/mm width)	1.00 - 4.00
Sheet Length (m)	0.50 - 4.00
*Note: 1. Min. and Max. width depends on thickness of the strip 2. Max. thickness depends on material temper.	

CHARACTERISTICS

Commercial name is Muntz metal

AL-60 is an economical brass alloy with high zinc content, good forming properties and

MECHANICAL PROPERTIES

Temper		Hardness , HV	Tensile Strength MPa	Yield Stress MPa	Elongation %	Grain Size
Ann.	O	60-80	290-350	≤170	≥35	0.035-0.100
1/4 Hard	H01	90-110	350-430	≥170	≥25	0.015-0.050
1/2 Hard	H02	110-135	430-490	≥220	≥15	≤0.015
Hard	H04	135-165	490-565	≥410	≥5	≤0.010
Extra Hard	H06	165-185	565-650	≥460	-	≤0.005
Spring Hard	H08	≥190	≥650	≥550	-	≤0.005

PHYSICAL PROPERTIES

TYPICAL VALUES IN ANNEALED TEMPER AT 20 ° C

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Density (g/cm ³)	Electrical conductivity (% IACS)	Thermal Conductivity (W/m.K)	Modulus of Elasticity Gpa	Specific Heat J/kg.K
8.39	22	116	105	375

Fabrication Properties

Capacity for being cold worked	Fair
Machinability	Fair
Capacity for being electroplated	Excellent
Capacity for being hot dip tinned	Excellent
Soft soldering	Excellent
Resistance welding	Good
Gas shielded arc welding	Fair
Laser welding	Less suitable

CORROSION RESISTANCE

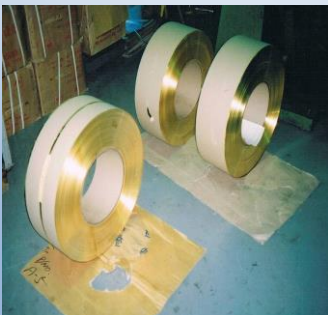
AL-60 has very good resistance to water, water vapor, different saline solutions, many organic liquids, land sea and industrial atmosphere.

Better resistance to sulphur bearing compounds than that of high copper alloys.

This alloy is tends to stress corrosion cracking
A heat treatment can help in avoid stress corrosion cracking.

Packaging

Standard seaworthy packaging or as per specific requirements of customer.



TYPICAL APPLICATIONS

- Locks and metal fittings, keys
- Condenser tube, Valve stems, Hot forgings, Heat exchanger tube
- Bolts, Decorative hardware
- Architecture

AL-60 conform ROHS Directive

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ROLLED PRODUCTS**

This data is general technical product information. Binding technical features are subject to the contract.

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