



ARCOTECH

AL-80(CuZn20) ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)	
Cu	79.00-81.00
Fe	≤0.05
Pb	≤0.03
Ni	≤0.10
Zn	REM

ALLOY DESIGNATIONS	
UNS	C24000
EN	CuZn20
JIS	C2400
BS	CZ103

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 thickness of the strip
2. Max. thickness depend on material temper.

CHARACTERISTICS

Commercial name is Low Brass

AL-80 has got very good cold and hot forming properties. This alloy is higher strength than pure copper.

AL-80 has good welding and brazing properties as well as not fragile to stress corrosion cracking and dezincification.

MECHANICAL PROPERTIES

Temper		Hardness , HV	Tensile Strength MPa	Yield Stress MPa	Elongation %	Grain Size
Ann.	O	55-75	275-330	≤130	≥42	0.035-0.070
1/4 Hard	H01	75-90	330-360	≥130	≥35	0.015-0.035
1/2 Hard	H02	95-125	370-440	≥270	≥25	≤0.010
3/4 Hard	H03	120-140	420-470	≥345	≥15	≤0.010
Hard	H04	140-160	470-540	≥380	≥10	≤0.010
Extra Hard	H06	155-175	530-600	≥430	≥4	≤0.005
Spring Hard	H08	170-190	585-640	≥480	-	≤0.005

PHYSICAL PROPERTIES

TYPICAL VALUES IN ANNEALED TEMPER AT 20 ° C

Density (g/cm ³)	Electrical conductivity (% IACS)	Thermal Conductivity (W/m.K)	Modulus of Elasticity Gpa	Specific Heat J/kg.K
8.67	32	142	119	380

ARCOTECH LTD

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AL-80(CuZn20) ROLLED PRODUCTS

Fabrication Properties

Capacity for being cold worked	Excellent
Machinability	Less suitable
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	Fair

CORROSION RESISTANCE

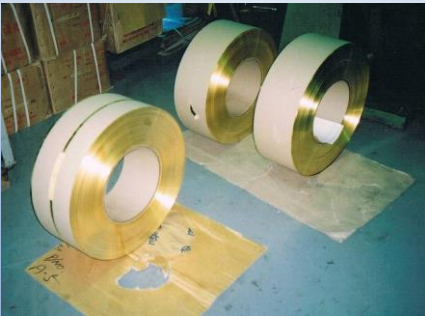
AL-80 has good resistance to fresh water, neutral or alkaline saline solutions, organic compounds as well as land, sea and industrial atmosphere.

This alloy is less sensitive to stress corrosion cracking and not sensitive to dezincification, that could occur in water with high chlorine content.

Not resistant to oxidizing acids, hydrous sulphur compounds.

Packaging

Standard seaworthy packaging or as per specific requirements of customer.



TYPICAL APPLICATIONS

- Electrical applications like battery caps, AC motors
- Jewelry and Metal goods
- Deep Drawn Parts
- Clock dials, Plaques, Musical Instrument Parts
- Pump lines, welding wires, Flexible Hose

AL-80 conform ROHS Directive

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

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