



ARCOTECH

AL-70(CuZn30) ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)

Cu	69.00-71.00
Fe	≤0.05
Pb	≤0.05
Ni	≤0.10
Zn	REM

ALLOY DESIGNATIONS

UNS	C26000
EN	CuZn30
JIS	C2600
BS	CZ106

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 Cartridge Brass.

AL-70 is excellent cold forming characteristics with good mechanical strength.

This alloy also has good hot forming properties and excellent soldering and brazing properties.

MECHANICAL PROPERTIES

Temper		Hardness , HV	Tensile Strength MPa	Yield Stress MPa	Elongation %	Grain Size
Ann.	O	55-75	275-330	≤160	≥45	0.035-0.100
1/4 Hard	H01	75-90	330-370	≥180	≥40	0.015-0.050
1/2 Hard	H02	95-125	380-440	≥220	≥30	≤0.015
3/4 Hard	H03	125-145	440-480	≥360	≥15	≤0.010
Hard	H04	140-160	480-540	≥410	≥10	≤0.010
Extra Hard	H06	160-180	540-610	≥450	≥5	≤0.005
Spring Hard	H08	≥180	≥610	≥530	-	≤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
8.53	28	126	115	377

ARCOTECH LTD

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AL-70(CuZn30) 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	Less suitable

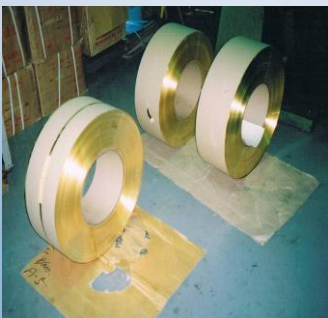
CORROSION RESISTANCE

AL-70 has very good resistance to water, water vapor, different saline solutions, many organic liquids and Industrial atmosphere

Under cold formed temper this alloy may tend to stress corrosion cracking with hydrous ammonia environment however through heat treatment risk of stress corrosion can be avoided.

Packaging

Standard seaworthy packaging or as per specific requirements of customer.



TYPICAL APPLICATIONS

- Terminal connectors, Flashlight shells, Lamp fixtures
- Odometer contacts, Heater cores, Thermostats, connectors, radiator cores, radiator tanks
- Ammunition cartridge cases, Mechanical housing for ammunition
- Jewelry and Metal goods

AL-70 conform ROHS Directive

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

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