



ARCOTECH

AL-85(CuZn15) ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)	
Cu	84.00-86.00
Fe	≤0.05
Pb	≤0.05
Ni	≤0.10
Zn	REM

ALLOY DESIGNATIONS	
UNS	C23000
EN	CuZn15
JIS	C2300
BS	CZ102

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 Red Brass

AL-85 has good cold forming and hot forming properties. This alloy has higher strength than pure copper.

AL-85 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	250-300	≤170	≥36	0.035-0.070
1/4 Hard	H01	80-100	300-350	≥170	≥20	0.015-0.035
1/2 Hard	H02	100-120	350-400	≥250	≥12	≤0.010
3/4 Hard	H03	115-135	390-440	≥310	≥5	≤0.010
Hard	H04	130-145	430-480	≥380	≥2	-
Extra Hard	H06	145-160	480-540	≥425	-	-
Spring Hard	H06	≥160	≥540	≥470	-	-

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
8.75	34	159	122	377

ARCOTECH LTD

181, Sector-3, Industrial growth Centre, Rewari, Haryana, India. Ph: 01284-264160/161, Website :www.arcotech.in



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Fabrication Properties

Capacity for being cold worked	Good
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	Good
Laser welding	Fair

Corrosion Resistance

Al-85 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 dezincification and stress corrosion cracking.

Non resistance to acids, hydrous sulphur compounds, hydrous ammonia in the non stress relieved condition

Packaging

Standard seaworthy packaging or as per specific requirements of customer.



AL-85 conform ROHS Directive

TYPICAL APPLICATIONS

- Jewelry and Metal Goods
- Components for Electrical Industry
- Cladding Panels
- Condenser tubes, Radiator cores, Heat exchangers, Fire extinguishers
- Eyelets, Fasteners

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

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