



ARCOTECH

AL-120(Cu-DLP) ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)	
Cu	≥99.90
P	0.005-0.013

ALLOY DESIGNATIONS	
UNS	C12000
EN	Cu-DLP
JIS	C1201
BS	---

COIL/ SHEET SPECIFICATIONS

Thickness (mm)	0.035-3.00
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 - 3.00

*Note: 1. Min. and Max. width depends on thickness of the strip
2. Material temper depends on thickness of the strip

CHARACTERISTICS

AL-120 is Phosphorous deoxidized copper with low residual phosphorous.

This grade of copper has good electrical conductivity and excellent welding and soldering properties.

This has got excellent cold and hot forming characteristics.

AL-120 is not susceptible to hydrogen embrittlement.

MECHANICAL PROPERTIES

Temper		Hardness , HV	Tensile Strength MPa	Yield Stress MPa	Elongation %	
					T<0.1mm	T> 0.1mm
Ann.	O	40-60	200-250	≤100	≥20	≥35
1/4 Hard	H01	60-75	220-260	≤140	≥10	≥15
1/2 Hard	H02	70-90	240-290	≥180	≥5	≥10
Hard	H04	90-110	290-360	≥250	≥2	≥4
Extra Hard	H06	≥110	≥360	≥320	-	-

ARCOTECH LTD

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



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PHYSICAL PROPERTIES

TYPICAL VALUES IN ANNEALED TEMPER AT 20 ° C

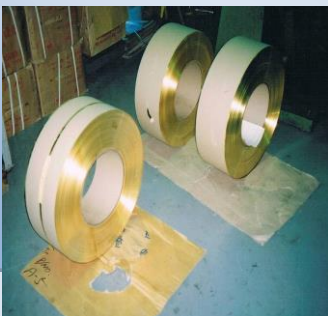
Density (g/cm ³)	Electrical conductivity (% IACS)	Thermal Conductivity (W/m.K)	Modulus of Elasticity Gpa	Specific Heat J/kg.K
8.92	90	350	132	386

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	Less suitable
Gas shielded arc welding	Excellent
Laser welding	Good

Packaging

Standard seaworthy packaging or as per specific requirements of customer.



Corrosion Resistance

AL-120 is resistance to atmosphere corrosion and good resistant to natural and industrial atmosphere

Non resistant to oxidizing acids, hydrous ammonia and halogenated gases, halogen sulfide, sea water especially with high flow rates.

TYPICAL APPLICATIONS

- Conductors
- Resistance welding equipment
- Tubing
- Apparatus Industry

AL-102 conform ROHS Directive

Technical product information. Binding technical features are subject to the contract.

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