

Commercial Name : Tin Bearing Copper

Tin Bearing Copper used in fabrication of radiators for motor car, trucks, tractors, earth moving equipments, diesel locomotives and stationary internal combustion engines.

Reference Standard:

GMSL: TBC

IS-3331

Chemical Composition:		(% By Weight)
A	P	0.015 - 0.045 %
B	SN	0.07-0.20%
C	CU	99.5 Min.

Mechanical Properties:		
Hardness of Copper		
Alloy	Temper	HV
TBC	O(A)	60 Max
	HB	80 - 90
	3/4H	90 - 105
	HD	105-125
	EH	125-145

Applications:

- Earth Moving Equipments
- Diesel Locomotives

Surface Characteristics:

Surface Appearance : Both surfaces smooth, shiny without obvious scores and / or scratches that compromise the aesthetic quality of the finished product. Edge Finish is well trimmed, with no burrs, flakes or lateral deformation on the wap.

Physical Properties:		Units
A	Density	8.93 g/cm ³
B	Thermal expansion coefficient - 191 .. 16	17.3 (10-6/K)
C	Specific Heat Capacity	0.385 J/(g.k)
D	Thermal Conductivity	340 W/(m.k)
E	Electrical Conductivity (1 MS/m = 1 m/(O mm ²))	46 MS/m
F	Electrical Conductivity (IACS)	80 %
G	Thermal coefficient of electrical resistance (0 - 200 °C)	3.2 (10-3/K)
H	Modulus of elasticity (1 Gpa = kN/mm ²) cold formed	120 Gpa

Gupta Metal Sheets Ltd is an India based IATF 16949:2016 / ISO 9001:2015 certified company manufacturing non-ferrous rolled semis since 1989.

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