

JMW INDIA PVT LTD.WORKS: NEAR SIDCO ESTATE OFFICE, SIDCO
INDUSTRIAL COMPLEX, BARI BRAHMANA,
JAMMU-181134

QUALITY DEPT.

MATERIAL SPECIFICATION

MATERIAL: COPPER STRIP, BUS BAR

1. SCOPE:-

This specification covers **COPPER STRIP & BUS BAR**, for electrical purpose with drawn edges in the annealed, half hard, and hard condition. With reference to the properties, Acceptance criteria etc, under following headings.

- 1.1 Relevant information from Indian/ international standards, & vendor's specification.
- 1.2 Major properties
- 1.3 Acceptance criteria & routine test at vendor or external testing institutions.

2. REFERENCE SPECIFICATION:-

INDIAN :- IS 1897-1983
INTERNATIONAL :-

3. MAJOR PROPERTIES :-**3.1 PHYSICAL PROPERTIES :-**

3.1.1 TENSILE STRENGTH, MPA (MIN.)	=	205
3.1.2 ELONGATION) GAUGE-LENGTH= 50MM) % MIN.	=	35
3.1.3 RESISTIVITY Ohm mm ² /m (MAX.)	=	0.0172410
3.1.4 CONDUCTIVITY, IACS (MIN.)	=	100.00
3.1.5 HARDNESS, HV (MAX.)	=	60
3.1.6 OXYGEN, PPM (MAX.)	=	5.00

4.0 BEND TEST

- 4.1 LONGITUDNAL BEND TEST :- NO CRACKS
- 4.2 TRANSEVERSE BEND TEST :- NO CRACKS
- 4.3 EDGEWISE BEND TEST :- NO CRACKS

STRIP SHOULD BE CAPABLE TO BEND AT 180°

5.0 SIZE MANUFACTURING CAPACITY

- 5.1 COPPER STRIPS = 5.67 MM² TO 150 MM²
- 5.2 BUS BAR = 30 MM² TO 600 MM²

6.0 DIMENSIONAL TOLERANCE & RADIUS :-

AS PER IS 1897-1983 OR CUSTOMER SPECIFICATION

7.0 ACCEPTANCE CRITERIA :

The following Test Certificate shall be submitted :

ROUTINE TEST (FOR EVERY LOT)
CHEMICAL ANALYSIS
PHYSICAL PROPERTIES

8.0 APPROVED VENDOR'S OF

- 8.1 CHITTRANJAN LOCOMOTIVE WORKS, VENDOR CODE J/9091
- 8.2 BHARAT HEAVY ELECTRICAL LIMITED, VENDOR CODE J/4637

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Issued By:



Approved By:
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