



# CORPORATE PURCHASING SPECIFICATION

AA21109

Rev No.05

PREFACE SHEET

# PRESSBOARD - LAMINATED FOR ELECTRICAL PURPOSES

FOR INTERNAL USE ONLY
REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

Equivalent .	/ Comparable	Standards:
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International : IEC 60763-3-1 : 2010, Type LB3.1A.1 or LB3.1A.2

# Probable / Suggested Suppliers and Grades:

Refer plant vendors list

# **User Plants and Replaced Plant Specifications / References:**

1) HEP, BHOPAL : BP21198
 2) TP, JHANSI : BP21198

Revisions: Spec. completely revised in line with International Standard		APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE - MRC(E&IM)				
Rev No.05	Amd No.	Reaffirmed		Prepared	Issued	Dt. of 1 <sup>st</sup> Issue
Dt:29-11-2023	Dt:	Year:	1 <sub>4</sub> HEP, Bhopal	Corp.R&D	May 1980	

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## PRESSBOARD - LAMINATED FOR ELECTRICAL PURPOSES

# 1 GENERAL

This specification governs the quality requirements of a very hard and rigid laminated precompressed pressboard made by 100% sulphate wood pulp board characterised by high purity and mechanical strength and capable of being sheared without showing ragged edges. Its surface bears mash marks. The laminates are manufactured by building up laminate of solid precompressed pressboard by hot pressing with casein based adhesive or non-aqueous adhesive, free from extraneous matter in the solid plastic state. The material shall be free from soluble electrolyte such as chlorides, sulphates and carbonates and also from conducting particles. The material in insulating oil shall have temperature index of at least 105°C.

#### 2 APPLICATION

The material is used as coil spacers, flat washers, edge blocks and clamping rings etc. in transformers, reactors etc.

#### 3 COMPLIANCE / PROPERTIES

The material shall comply with the requirements of the latest edition of IEC 60763-3-1:2010 Type LB3.1A.1 or LB3.1A.2. Bidder to mentioned type offered.

#### 4 DIMENSIONS AND TOLERANCES

Thickness, width and length of the pressboard shall be stated on the order. The sheet shall be rectangular in shape with the two diagonals being equal. Sheet shall not form parallelogram. Two diagonals of the sheet shall be within ±5 mm.

#### 5 PREFERRED THICKNESS

8, 12, 16, 20, 25, 30, 40, 50mm and above in multiple of 10mm

# 6 PREFERRED SIZE

1800 X 3000mm, 2100 X 3100mm (With a tolerance of ±100mm on length & width). However, other sheet sizes may be purchased as per requirements.

#### 7 FINISH

Shall have matt finish with no irregularities.

# 8 METHOD OF TESTS

IEC 60763-2

#### 9 SAMPLE FOR TEST

Three boards of ordered thickness in 500 X 500 mm size shall be supplied for testing and approval.

Revisions: Spec International Star	. completely revise idard -	d in line with	APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(E&IM)			
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## 10 TEST CERTIFICATE

Test certificate should contain all properties as per IEC 60763-3-1 Type LB3.1 A.1 or LB3.1 A.2., except Flatness.

Unless otherwise stated, 3 copies of test certificates shall be supplied along with each consignment. In addition, the supplier shall ensure to send one copy of test certificates along with their dispatch documents to facilitate quick clearance of the material.

## 11 PACKING & MARKING

Manufacturer's name or identification slips with carbon free ink shall be given on each board which shall be compatible with insulating oil to IEC 60296. The boards shall be sealed in high density polyethylene sheets/ suitable packing to prevent ingress of rain water. These boards then shall be packed in a wooden case to avoid damage during transit. Packing shall be marked legibly with the following information —

- 1) AA21109 (Rev. 05): Pressboard Laminated
- 2) BHEL Order No.
- 3) Manufacturer's name / Grade / Batch/ Lot no.
- 4) Thickness, Length & Width of the board
- 5) Quantity of boards / Net weight/ Gross weight (kg)
- 6) Date of manufacturer / No. of boards

# 12 REFERRED STANDARDS (Latest Publications Including Amendments)

1) IEC 60763-2	2)	IEC 60296
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