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TRACTION MACHINES ENGINEERING DIVISION, BHEL, BHOPAL				
PRODUCT STANDARD		CONCURRENCE SHEET		
GENERAL INFORMATION				
PRODUCT STANDARD NO.		TM 98191		DATE : 21.12.93
DESCRIPTION		CERAMIC SHEET		
REVISION NO.	DETAILS OF REVISION			
NIL				
	NAME	SIGNATURE	DATE	
PREPARED BY	D.M. NIMTE	<i>[Signature]</i>	21.12.93	
AGREED BY	REMARKS	DEPTT./SEC.	SIGNATURE	DATE
S.K. BHATIA	Agreed	TME/TG	<i>[Signature]</i>	21.12.93
S.K. Sharma	Agreed	TME	<i>[Signature]</i>	21.12.93



CERAMIC SHEET

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1.0 GENERAL:

This specification governs the quality requirement of uncoated ceramic sheet, for electrical machines.

The data is based on grade Cequin-1 of M/s Quin-T Corp.

2.0 APPLICATION:

The uncoated ceramic sheet is used as an interturn insulation of traction motor field coils.

3.0 SIZE:

3.1 Thickness: 0.13 mm + 0.02 mm

3.2 Width : 915 mm + 10 mm, However any other width can also be order.

3.3 Length : Unless otherwise specified, shall be supplied in continuous length not less than 100 meters.

4.0 PHYSICAL PROPERTIES:

4.1 Finish: Shall be smooth and uniform, free from defects of oil and grease spots, creases, wrinkles, pin holes etc.

4.2 Typical Properties:

4.2.1 Tensile Strength : 1.0 KN/M² (5.7lb/in²) minimum.

4.2.2 Bursting Strength : 40 KPa (6 psi) minimum.

4.2.3 Elongation : 2% maximum.

4.2.4 Dielectric strength : 1.3 KV minimum.

4.2.5 Weight : 0.14 Kg./Sq.M (0.26 lb/Sq.yd)

5.0 INFORMATION WITH QUOTATION:

Supplier shall give clause by clause comments on specification bringing out deviations, if any.

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Revisions: 00	Distribution	Qty.	Approved: <i>P. H. Aggarwal</i>		
			Prepared (D.M. Nimje)	CHECKED (R.P. Tiwari)	Date 21.12.93
Date : 21.12.93	TME CIM QC(CIM)	1 2 1			



6.0 PACKING AND MARKING:

Uncoated ceramic sheet shall be supplied in a rolls sealed in moisture proof polyethylene. Both ends of the roll shall be suitably protected to prevent damage to the edges. The material shall be supplied in cases suitably packed to prevent damage during transit and storage.

Each packing shall be marked with following:

- a) TM 93191 : Ceramic Sheet
- b) BHEL Order No. :
- c) Manufacturer's/Supplier's Name:
- d) Grade :
- e) Batch No./Lot No. :
- f) Quantity Supplied :

[Handwritten signature]
21/12/73

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