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Material Specification Sheet

RHN 25B

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WRAS Approved Vulcanised Fibre

General Information
Due to the excellent characteristics and properties of vulcanised fibre it has historically made it such a popular and versatile material choice in a multitude of industrial sectors. The process of making vulcanised fibre is complex and briefly involves the saturation of cotton paper with zinc chloride. The zinc chloride enables the cellulose structure of the cotton to swell and once pressed together begins to form a bond. The zinc chloride is then slowly leached out of the material on steam drums to leave the finished product with 5 to 6 percent moisture content. This is then pressed to form flat sheet. The final product is a homogeneous piece and nearly a 100 percent cellulose mass, free from any matter.

Format & Presentation
Supplied in sheets 2200mm x 1275mm nominal (Colour – Red)
Thickness*
From 0.8mm to 3mm
WRAS Approval – Approval Number 1411542 valid between November 2014 and November 2019
This material is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 "suitability of non-metallic products for use in the contact with water intended for human consumption regarding their effect on the quality of the water. The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use. For use with water up to 85˚C. For use only as a jointing/gasket material having been tested at reduced surface area to volume ratio.

Property	**Unit**	**Technical Data/Quality Result**
WRAS Approval (Test Report)		1411542 (MAT/LAB 622H & 330J/a)
Type		VF3110
Kind		Vulcanised fibre for electrical applications
Delivery Form		Sheet
Colour		Red, Black*
Specific Gravity	g/cm³	1,2 – 1,3
Grammage	g/m²	
Zinc Chloride Content	%ZnCl2/TS	< 0,05
Humidity	%	8
Ball Pressure Harness	N/mm2	100
Impact Strength	kJ/m²	120
Notched Bar Impact Strength	kJ/m²	30
Ratio cd/md	factor	0.6
Tensile Strength md	MPa	80
Tensile Strength cd	MPa	50
Elongation at Break l	%	12
Elongation at Break cd	%	15
Conductivity of Aqueous Extract	µS/cm	40
pH Value of Aqueous Extract		6
Electric Strength	kV/mm	5,2 – 8 depending on strength
Temperature Resistance	**95°C:**	permanent
Temperature Resistance	**130°C:**	several hours
Temperature Resistance	**180°C:**	short time
Heat Resistance	W /mK	0.31
Characteristic Properties	High mechanical strength, good machining properties, good electrical properties	
Example of Applications	For general purpose such as discs and rings, grinding wheels, containers, protective shields.	