

Tapes – Banding Hyperten 2000HP

GENERAL INFORMATION

Hyperten 2000HP resin impregnated uni-directional glass banding tape is rated for Class H (180°C) operation.

APPLICATIONS

Hyperten 2000HP is designed for banding high speed armatures and rotors. When correctly applied it will form a high tensile insulation band to retain the windings and resist displacement by centrifugal forces. Hyperten 2000HP displays good retention of mechanical strength at elevated temperatures and is particularly suitable for the banding the armatures of railway traction motors. Hyperten 2000HP shows high flexibility, is conformable and can therefore be employed to brace the endwindings of form wound rotating machines and for the bracing of transformer coils.

CONSTRUCTION

Hyperten 2000HP is manufactured using treated uni-directional E glass fibre yarns impregnated with a specially formulated resin/ hardener system. The resin employed promotes high inter yarn adhesion and is cured to a 'B' stage during manufacture of the tape. When fully cured Hyperten 2000HP exhibits high mechanical strength, good resistance to moisture and will operate at Class H (180°C) temperatures.

SAFETY AND HANDLING

Attention is drawn to the material safety data sheets which are available for this product. The product covered by this data sheet must not be put into use without a study of the appropriate safety precautions.

TYPICAL VALUES

Product Designation	Resin Type	Resin Content [%]	Glass Yarn	Temperature Classification	Tolerance on width [mm]	Yarn Ends per [mm/Width]	Thickness [mm]	Uncured Tensile Strength @ 20°C [N/mm]
Hyperten 2000HP	Modified Epoxy Novalac	27 +/-3	"E" type continuous filament	Class h (180°C)	-0.0 / +3.0 mm	3	0.32 +/- 0.03	180

Shelf Life	Months
@ 10°C	16
@ 15°C	12
@20°C	8
@30°C	4