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Polyglas™ Surge Rope

High quality surge rope stock designed specifically for bracing of motor coils to prevent distortion of the windings. Easily and inexpensively installed, it has a high tensile strength braided glass, and is fully impregnated with a catalyzed thermo-setting resin. It is designed for structural applications requiring a rigid insulating and high mechanical strength material. This material is engineered to withstand an operating temperature of 220°C. This product meets Westinghouse specification 41324AP.

Physical Properties:

Resin Type	Polyester
Resin Content Cured	30% Nominal
Temperature Class	220°C
Shelf Life 72°F	12 Months
Below 50°F	24 Months

PSR can be supplied to cure at room temperature for use in applications on large motors where it is impractical to bake or apply heat to affect cure. These materials are made on specific request.

Cure Cycle:

150-C	25 Minutes
135-C	40 Minutes
125-C	150 Minutes

An untreated version is also available. This version is very popular in VPI or Dip and Bake applications, where adequate resin impregnation will occur during the resin processing procedure. This product is the actual base glass material used in the treated version. It is constructed of texturized glass rovings encased with an overbraid of fiberglass. The complete fiberglass construction assures the untreated surge rope will hold up in applications up to 260°C. Upon varnish or resin impregnation, the finished cured surge rope will take on the temperature rating of the varnish or resin that is used to treat the equipment. Unlike treated surge rope, the untreated surge rope has no shelf life limitations.

Nominal Diameter	Treated Part Number	Untreated Part Number
1/4"	PSR250NS	PSR250UNS
3/8"	PSR375NS	PSR375UNS
1/2"	PSR500NS	PSR500UNS
5/8"	PSR625NS	PSR625UNS
3/4"	PSR750NS	PSR750UNS
1"	PSR100NS	PSR1000UNS