

VPI Technology

POWERFAB® Technology

Ultra thin tape technology

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| POROFAB® 3292 | Uncalcined muscovite mica paper with ultra-thin glass carrier |
| POROFAB® ME 3434 | Uncalcined muscovite mica paper with ultra-thin glass carrier containing metallic salt accelerator |

POROBAND® and POROFOL®

Porous mica paper tapes with low resin content having a glass cloth (POROBAND®) or film (POROFOL) carrier for continuous main insulation up to the highest voltages

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| POROBAND® 0410 | Standard type with uncalcined muscovite mica paper |
| POROBAND® ME 2072 | Standard type with accelerator for epoxy resin-anhydride systems |
| POROBAND® ME 2599 | As ME 2072, for highest insulation thicknesses and rated voltages |
| POROBAND® 3321 | Duplex Glass , uncalcined mica paper for Flat Coil Technology |
| POROBAND® 342206 | Duplex Glass, uncalcined mica paper for 13.8 kv applications |
| POROBAND® 4373 | Triplex :Glass, calcined muscovite mica paper, PET mat/fleece Epoxy based adhesive |
| POROBAND® 3470 | Same as 4373, softer for hand taping Polyester based adhesive |
| POROBAND® SI 0790 | Calcined mica paper reinforced by aramid fibres for silicone-based systems |
| POROBAND® SI 2577 | Calcined muscovite mica paper with aramid fibre content on glass cloth as carrier, a modified silicone resin is used as binder. Thermal class C (240 °C), for insulation of coils or bars of traction machines |
| POROFOL® 2076 | Standard type with uncalcined mica paper and PET film |
| POROFOL® ME 2075 | Standard type with accelerator for epoxy resin-anhydride systems |
| POROFOL® SR 0554 | As 2076, with thermo-shrinking PET carrier film |
| POROFOL® 0546 | As 2076, with additional PET fleece top layer |
| ISOSEAL® MF 0611 | Thermo-shrinking polyester glass fabric / PET film tape, used as top-sealing layer, red-brown colour |
| ISOSEAL® ME MF 2420 | As MF 0611 with accelerator for epoxy resin-anhydride systems |
| ISOSEAL® ARMOR MICA 3121 | Duplex 4 mil glass fabric, 4mil calcined mica paper as finish armor layer |
| ISOSEAL® ARMOR 6700 | Treated polyester- glass armor tape for V.P.I with accelerator |

POROMAT®

Expandable porous epoxy laminate, used as interlayer, spacer and filling material

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| POROMAT® 2248 | Expandable porous epoxy glass mat, both sides covered with PET fleece, as interlayer, spacer and filling material |
| POROMAT® ME 2242 | As 2248, but contains accelerator for epoxy resin-anhydride systems, for highest mechanical stress |
| POROFILZ 2074 | Highly absorbent and soft PET felt, for use as spacer and filling material |
| POROFILZ ME 2070 | Contains accelerator for epoxy resin-anhydride systems |

VOTASTAT® VPI-Resin

Low-viscosity impregnating epoxy resins for vacuum pressure impregnation of coils and bars as well as for the global impregnation of electrical machines

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| VOTASTAT® 2110 | 2-component impregnating resin, consisting of a bisphenol-A epoxy resin and a liquid acid-anhydride hardener with very long pot life and shelf life, also available readymixed as VOTASTAT VP 1168 |
| VOTASTAT® 100K/XD4150 | Solvent-free one-component epoxy resin with a very long pot life |
| VOTASTAT® XD4159 | Solvent-free thixotropic one-component resin with a very long pot life, excellent cavity-filling ability |
| VOTASTAT® SI 4800 | Silicone resin for traction motor applications |
| ISOLAC R1000 | Epoxy varnish applied to conductors and acts as lubricant during looping |

Resin Rich Technology

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| CALMICAFAB® 3293 | Calcined muscovite mica paper with ultra-thin glass carrier for high performance mainwall |
| CALMICAFAB® 3294 | as type 3293, interleaved |
| CALMICAFAB® 3417 | as type 3294, higher resin flow for easier processing |
| CALMICAFAB® 3450 | as type 3293 with enhanced mechanical performance |

CALMICA® and CALMICAGLAS®

Thermal class F-H (155 °C - 180 °C), thermosetting materials for main insulations, based on a mica paper fully impregnated with high temperature resistant epoxy resin, on a film (CALMICA®) or glasscloth (CALMICAGLAS®) carrier

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| CALMICA® 70 0900 | PET film carrier with calcined mica, for coils and bars of high voltage machines |
| CALMICA® 0867 | PET film carrier with uncalcined mica paper, for coils and bars of high voltage machines |
| CALMICA® S100 3052 | Calcined mica paper on shrinkable PET film carrier, for coils and bars of high voltage machines |
| CALMICAGLAS® 0409 | Glass with calcined mica paper, for highest output and voltage |
| CALMICAGLAS® 2005 | as 0409, interleaved |
| CALMICAGLAS® 0893 | With uncalcined mica, for coils and bars of low- and high-voltage machines |
| CALMICAGLAS® 4800 | Glass with calcined mica paper, b-stage epoxy for high voltage bars and coils |
| CALMICAGLAS® 4802 | Same as 4800 except with twice the mica content, uncalcined mica |
| CALMICAGLAS® 4820 | Same as 4800 except with high resin content for low pressure applications |