

Flexible Insulation Materials

ISOSPAN®

Laminates with cellulose or cotton paper and PET film. Thermal class B (130 °C), for slot and phase insulation in low voltage motors or as interlayer insulation in choke coils and small dry type transformers

2 Layers with Cellulose Paper / PET Film

- ISOSPAN® KM 3623 Kraft paper / PET film. Paper made from pulp of high mechanical strength
- ISOSPAN® PM 3624 Presspan / PET film. Multilayer paper of high chemical purity, smooth surface. Paper in green and brown colors available

3 Layers with Cellulose Paper / PET Film

- ISOSPAN® KMK 3625 Kraft paper / PET film / Kraft paper
Paper made from pulp of high mechanical strength
- ISOSPAN® PMP 3626 Presspaper / PET film / Presspan
Multilayer paper of high chemical purity. Smooth surface
- ISOSPAN® MPM 3627 PET film / Presspan / PET film.
Multilayer paper of high chemical purity. Smooth surface
- ISOSPAN® AMA 3628 Calander Kraft / PET / Calander Kraft
Highly calendered paper. Brown colour

2 Layers with Cotton Paper / PET Film

- ISOSPAN® RM 3631 Rag cotton paper / PET film
Paper made entirely from cotton fiber or cotton fiber linters
- ISOSPAN® FM 3629 Cotton-cellulose crepped paper / PET film
Creped paper made from pulp of cotton and cellulose

3 Layers with Cotton Paper / PET Film

- ISOSPAN® MRM 3632 PET film / Rag cotton paper / PET film
Paper made entirely from cotton or cotton-linters
- ISOSPAN® RMR 3633 Rag cotton paper / PET film / Rag cotton paper
Paper made entirely from cotton or cotton-linters
- ISOSPAN® FMF 3630 Creped paper / PET film / Creped paper
Paper made from cotton cellulose pulp

PET Films

We carry a large selection of different PET films (polyethylene therephthalate) from leading manufacturers and can offer customized solutions for just about any application.

VOLTAFLX®

DM (2-Layers) or DMD (3-Layers) laminates with PET film and PET fleece, for slot, layer and phase insulation for electrical motors, generators and transformers

2-Layers with 50µm/2mil PET Fleece

VOLTAFLX® E 0936	Unsaturated, white. Thermal class B-F (130 °C - 155 °C)
VOLTAFLX® E 0951	70% saturated, white. Thermal class B-F (130 °C - 155 °C)
VOLTAFLX® 6644	100% saturated, blue. Thermal class B-F (130 °C - 155 °C)

3-Layers with 50µm/2mil PET Fleece

VOLTAFLX® 2598	70% saturated, white. Thermal class B-F (130 °C - 155 °C)
VOLTAFLX® F 6642	100% saturated, blue. Thermal class F (155 °C)
VOLTAFLX® F 0768	100% saturated, blue, smoothed surface. Thermal class F (155 °C)

3-Layers with 80µm/3mil PET Fleece

VOLTAFLX® 3 6641	70% saturated, white. Thermal class B-F (130 °C - 155 °C)
VOLTAFLX® 3F 6641	100% saturated, blue. Thermal class F (155 °C)
VOLTAFLX® 3F 0367	100% saturated, blue, smoothed surface. Thermal class F (155 °C)
VOLTAFLX® DMD3 0180	100% saturated, white. Thermal class F-H (155 °C - 180 °C)

3-Layers with 125µm/5mil PET Fleece

VOLTAFLX® F 2931	70% saturated, white. Thermal class B-F (130 °C - 155 °C)
VOLTAFLX® F 2917	100% saturated, blue. Thermal class F (155 °C)
VOLTAFLX® DMD5 0180	100% saturated, white. Thermal class F-H (155 °C - 180 °C)
VOLTAFLX® ME 2761	Unsaturated, highly absorbent fleece, red, contains accelerator. Thermal class B-F (130 °C - 155 °C)

3-Layers with 180µm/7mil PET Fleece

VOLTAFLX® 2526 and VOLTAFLX T	Unsaturated, embossed, highly absorbent fleece, white. Thermal class B-F (130 °C - 155 °C)
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Multilayer Laminates

Laminates for wedges, strips and punched pieces in electrical machines and for barrier insulation in transformers

VOLTAFLX® 2906	Based on VOLTAFLX® 0768, bonded with a temperature resistant resin. Thermal class F (155 °C). Supplied in sheets, available thicknesses 1 - 6 mm
VOLTAFLX® 2983	Multilayer PET fleece and PET film laminate. Supplied in rolls or sheets, thickness up to 1.5 mm
KOMBIMAT 2339	PET / PEN film laminate. Thermal class F (155 °C)
KOMBIMAT 2450	Multilayer PET film laminate. Thermal class B (130 °C)
KOMBIMAT 2822	Multilayer PET film laminate with improved adhesion properties

ISONOM®

NM or NMN Laminates of Nomex® with PET Film

Thermal class F-H (155 °C -180 °C), for slot, layer and phase insulation for electrical motors, generators and transformers

2-Layers with calendered Nomex®

ISONOM® NM 0880	Nomex® Type 464/050µm/2mil
ISONOM® NM 8 0882	Nomex® Type 416/080µm/3mil
ISONOM® NM 13 0950	Nomex® Type 416/130µm/5mil
ISONOM® NM 18 2883	Nomex® Type 410/180µm/7mil
ISONOM® NM 25 2882	Nomex® Type 410/250µm/10mil

2-Layers with uncalendered Nomex®

ISONOM® NM 2041	Nomex® Type 411/130µm/5mil
ISONOM® NM PH 2682	Nomex® Type 411/130µm/5mil, PSA coating on one side (PET film)

3-Layers with calendered Nomex®

ISONOM® NMN 0881	Nomex® Type 464/050µm/2mil
ISONOM® NMN 3211	Nomex® Type 464/050µm/2mil, Top coated
ISONOM® NMN PH 2045	Nomex® Type 464/050µm/2mil, adhesive coating on one side
ISONOM® NMN 2796	Nomex® Type 416/050µm/2mil
ISONOM® NMN 8 0883	Nomex® Type 416/080µm/3mil
ISONOM® NMN ME 2459	Nomex® Type 416/080µm/3mil, lacquered with an accelerator
ISONOM® NMN 13 0967	Nomex® Type 416/130µm/5mil
ISONOM® NMN 8 2800	Nomex® Type 418/080µm/3mil, contains mica

3-Layers with uncalendered Nomex®

ISONOM® NMN 2035	Nomex® Type 411/130µm/5mil
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4-Layers with calendered Nomex®

ISONOM® NMNM 3266	Nomex® Type 464/050µm/2mil, 12µm PET film on one side
ISONOM® NMNM 2298	Nomex® Type 464/050µm/2mil, 23µm PET film on one side
ISONOM® NMNM 3330	Nomex® Type 416/130µm/5mil, 12µm PET film on one side
ISONOM® NMNM 2798	Nomex® Type 416/080µm/3mil, 23µm PET film on one side

NX and NXN laminates of Nomex® and PEN Film (polyethylene naphthalate film)

Thermal class F-H (155 °C - 180 °C), for applications which are exposed to high thermal stress

ISONOM® NX 2750	Nomex® Type 464/50µm/2mil laminated with PEN film on one side. Thermal class F-H (155 °C - 180 °C)
ISONOM® NXN 2751	Nomex® Type 464/50µm/2mil laminated with PEN film as core layer. Thermal class H (180 °C)

NK or NKN laminates of Nomex® and Polyimide Film

Thermal class H-C (180 °C - 200 °C), for slot, layer and phase insulation for electrical motors, generators and transformers exposed to high thermal stress

2-Layers with calendered Nomex®

ISONOM® NK 2530	Nomex® Type 464/050µm/2mil
ISONOM® NK 8 2261	Nomex® Type 416/080µm/3mil
ISONOM® NK 13 3008	Nomex® Type 416/130µm/5mil
ISONOM® NK 18 2563	Nomex® Type 410/180µm/7mil

3-Layers with calendered Nomex®

ISONOM® NKN 0885	Nomex® Type 464/050µm/2mil
ISONOM® NKN 8 0886	Nomex® Type 416/080µm/3mil
ISONOM® NKN 13 0887	Nomex® Type 416/130µm/5mil
ISONOM® NKN 3643	Nomex® Type 410/050µm/2mil
ISONOM® NKN 8 3644	Nomex® Type 410/080µm/3mil
ISONOM® NKN 13 3645	Nomex® Type 410/130µm/5mil
ISONOM® NKN 18 2281	Nomex® Type 410/180µm/7mil
ISONOM® NKN 25 2664	Nomex® Type 410/250µm/10mil
ISONOM® NKN 2558	Nomex® Type 416/080µm/3mil and 130µm/5mil, asymmetric
ISONOM® KNK 2711	Nomex® Type 410, 416 or 464 laminated with PI film on both sides

3-Layers with uncalendered Nomex®

ISONOM® NKN 2039	Nomex® Type 411/130µm/5mil
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2- and 3-Layer Laminates of Nomex® and Glass Cloth or Glass Fleece

Thermal class H-C (180 °C - 200 °C), for applications which are exposed to high thermal stress

ISONOM® NG 0888	Nomex® Type 411 with glass cloth on one side
ISONOM® NGN 3543	Nomex® Type 416 or 464 with glass cloth as a core layer
ISONOM® NMG 2042	Nomex® Type 411 with PET film as a core layer and glass cloth on one side
ISONOM® BNB 0582	Nomex® Type 410, 416 or 464 laminated with glass fleece on both sides

Laminates of Nomex® and Mica Paper

Thermal class H-C (180 °C - 200 °C), for slot, layer and phase insulation for electrical motors, generators and transformers exposed to high thermal stress, especially where corona resistant and flame retardant properties are required

ISONOM® NMiN 3209	Nomex® Type 416 or 464 with mica paper as a core layer
ISONOM® NMMiG 3467	Nomex® Type 416 or 464 with PET film and mica paper as a core layer and glass cloth on the outside
ISONOM® NMMiN 3419	Nomex® Type 464/50µm/2mil on the outside and PET film and mica paper as a core layer

GK or GKG Laminates of Glass Cloth and Polyimide Film

Thermal class H-C (180 °C - 200 °C), for slot, layer and phase insulation for electrical motors, generators and transformers exposed to high thermal stress

VOLTAFLEX® GK 2797	PI film with glass cloth 25 g/m ² on one side
VOLTAFLEX® GK 2799	PI film with glass cloth 50 g/m ² on one side
VOLTAFLEX® GKG 2064	PI film with glass cloth 25 g/m ² on both sides

Nomex®

We are an authorized distributor of DuPont™ Nomex® throughout Africa, Andean countries, China, Europe, Hong Kong, Middle East, North and Central America, Russia and other parts of the world for many years and can offer the complete range of products. We will be happy to supply technical information and datasheets.

Kapton®

We are an authorized distributor of DuPont™ Kapton® throughout Europe and Mexico. We will be happy to supply technical information and datasheets.

Varnished Fabrics

DEGLAS® FG 0932	Electrical grade glass cloth impregnated with a polyurethane resin with very high tensile strength. For phase insulation for motors and generators, for ground, barrier and layer insulation for transformers, wrapping applications. Thermal class F (155 °C)
DEGLAS® DNL 2019	As DEGLAS® FG 0932 but bias cut and seamless, designed for taping tight bends. Thermal class F (155 °C)
DEGLAS® FG 2949	Electrical grade glass cloth impregnated with a modified polyester resin. For phase insulation for motors and generators, for ground, barrier and layer insulation for transformers, wrapping applications. Thermal class H (180 °C)
SILGLAS FG 2090	Alkali free glass cloth impregnated with a special silicon rubber, parallel warp threads to the edges. For phase insulation for motors and generators, for ground, barrier and layer insulation for transformers, high temperature wrapping applications. Thermal class H (180 °C)
TRAFOGITTER	Impregnated and fully cured wide-meshed glass fabric. For use as a spacer and reinforcement in transformer castings. Thermal class F (155 °C)