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## SynKraft® VSP H3

SynKraft® VSP H3 is a tear-proof, flexible 3-ply insulation consisting of a polyester film with special presspaper attached to both sides.

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### Attributes

The pressboard displays good absorption of impregnants, resulting in exceptional bonding between all winding components after impregnating. The polyester film improves the electrical and mechanical properties of the pressboard layer in the composite material, especially the resistance to tears. On the other hand, the polyester film is protected against damages during processing by the pressboard layers.

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### Application

SynKraft® VSP H3 is used as an extremely costeffective slot insulation and slot closure in stators and rotors, especially for small motors, and is often applied as interlayer insulation and final insulation in small transformers.

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### Standards

- Class B (130 °C) insulating material
- Insulation according to IEC 60626-2
- Test method acc. IEC 60641-2
- Sample conditioning acc. to standard atmosphere 23/50

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### Delivery forms

#### Total thickness in µm:

70, 110, 120, 150, 200, 250, 300

other thicknesses on request

#### SynKraft® VSP H3 can be supplied as:

- - in slit rolls from widths of 6 mm and above
- - in rolls approx. 630 mm or 1.260 mm
- - in sheets approx. 630 mm x 800 mm or approx. 800 mm x 1.260 mm

#### Feathering:

- depth approx. 1 - 12 mm, distance approx. 1 - 10 mm
- from widths of 10 to 240 mm and thickness of 0.20 mm

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## Base

PET-film + both sided high-grade presspaper (thicknesses  $\geq 100 \mu\text{m}$ )

PET-film + both sided capacitor paper (thickness  $70 \mu\text{m}$ )

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| Mechanical                       | Unit of measure   |      |      |      |      |      |      |
|----------------------------------|-------------------|------|------|------|------|------|------|
| Total thickness                  | mm                | 0.07 | 0.11 | 0.12 | 0.15 | 0.17 | 0.20 |
| Nominal thickness of film        | µm                | 23   | 23   | 36   | 36   | 75   | 36   |
| Specific weight                  | g/m <sup>2</sup>  | 73   | 100  | 120  | 190  | 175  | 240  |
| Elongation at break longitudinal | %                 | 3    | 2    | 2    | 2.5  | 3    | 2.5  |
| Elongation at break transversal  | %                 | 10   | 8    | 10   | 10   | 10   | 10   |
| Tensile strength longitudinal    | N/mm <sup>2</sup> | 100  | 90   | 100  | 120  | 100  | 120  |
| Tensile strength transversal     | N/mm <sup>2</sup> | 70   | 50   | 60   | 80   | 70   | 70   |

| Mechanical                       | Unit of measure  |      |      |      |
|----------------------------------|------------------|------|------|------|
| Total thickness                  | mm               | 0.25 | 0.30 | 0.48 |
| Nominal thickness of film        | µm               | 36   | 36   | 75   |
| Specific weight                  | g/m <sup>2</sup> | 320  | 380  | 580  |
| Elongation at break longitudinal | %                | 2.5  | 2.5  | 3    |

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| Mechanical                      | Unit of measure   |     |     |     |
|---------------------------------|-------------------|-----|-----|-----|
| Elongation at break transversal | %                 | 10  | 10  | 10  |
| Tensile strength longitudinal   | N/mm <sup>2</sup> | 100 | 100 | 120 |
| Tensile strength transversal    | N/mm <sup>2</sup> | 60  | 70  | 70  |

| Electrical                | Unit of measure |      |      |      |      |      |      |
|---------------------------|-----------------|------|------|------|------|------|------|
| Total thickness           | mm              | 0.07 | 0.11 | 0.12 | 0.15 | 0.17 | 0.20 |
| Nominal thickness of film | µm              | 23   | 23   | 36   | 36   | 75   | 36   |
| Dielectric strength       | kV              | 7    | 7    | 9    | 10   | 12   | 10   |

| Electrical                | Unit of measure |      |      |      |
|---------------------------|-----------------|------|------|------|
| Total thickness           | mm              | 0.25 | 0.30 | 0.48 |
| Nominal thickness of film | µm              | 36   | 36   | 75   |
| Dielectric strength       | kV              | 10   | 10   | 12   |

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