

Wiking[®] Refrac

Wiking[®] Refrac is a round, monofilament fibre made of polypropylene and possesses a number of fantastic properties. The fibres are developed for use in fireproof materials and for casting purposes at high temperatures.

This results in reduced wastage and improved application opportunities in the finished products.

Advantages and Properties

- Reinforces and improves
- fireproof materials Reduces the wastage rate in the end product
- Reduces the CO₂ discharge

General Applications

- Chinaware such as wash basins and toilets
- Firebricks for high and low temperature ovens
- Fire-retardant materials
- All forms of clay earthenware e.g. bricks and roof tiles
- Medicine industry.

Specifications - Wiking® Refrac

Thickness:
Length:
Maximal load approx.:
Elongation:
Softening temperature:
Melting temperature:
Dosing:

15-110 micron 2, 3, 4, 6, 8, 12 and 18 mm 300 MPa 130-180% 140-150°C 165°C 0.9 – 2.0 kg/cu m

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Application

The Wiking[®] Refrac fibre is used in the fireproof matrix to guarantee an optimal stress distribution and apart from this, it gives stronger cohesion of the matrix. Porosity is created in the actual burning process of the fireproof material as the fibres will melt way.

As the fibres rest in a 3-dimensional structure in the matrix, the advantage of having moist and steam escape from the material is achieved. Thus the risk of crack formation and fragmentation is reduced both during the burning and after the burning.

In artificial prostheses the opportunity is increased that musculature may grow into the prosthesis as the fibres melt away in the burning process.

Thermical properties:

Wiking® Refrac has very low thermal conductivity and a low melting temperature

- Softening temperature
- approx 140-150° C Melting temperature approx. 165° C

Absorption of moisture:

Absorption of moisture: - at 20° C/65% R.H. 0.05% Absorption of water: < 0.1%

Wiking® Refrac has the lowest absorption of moisture of all fibres, and this guarantees dry fibres.

Chemical and biological resistance:

All Wiking® Refrac fibres demonstrate substantial resistance to acids and alkalis and most organic chemicals. To this can be added that they do not rot, and they will not be attacked by insects or micro-organisms.

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Electrostatic properties:

Wiking® Refrac has a negligible tendency of developing static electricity.

Dimensions:

Wiking® Refrac is available in thicknesses from 15 - 110 micron and in various lengths. The application of thin fibres means more fibres in the mixture, but this requires a special, highly effective mixing machine.

Delivery:

Wiking® Refrac is delivered in cartons of 25-35 kg on pallets with 600-840 kg. (24-32 cartons).

Danish Fibre Production's technical division is at your service and will be pleased to give you advice concerning the correct use of our products as is required.

Guarantee references

Wiking[®] Refrac, complies with EN-14.889-2, fibre class 1a, system 1and is produced in an installation that is certified with ISO 9001-2004. Danish Fibres does not have control over the installation of their products and their processing, and therefore cannot take responsibility for the final products.

Health and safety

Please read the specific safety data sheets or contact the technicians at Danish Fibres

Technical consultation

The technical department at Danish Fibres is available to you and can give advice about the correct use of our products.

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