TEXPACK®

# TECHNICAL DATA SHEET

Rev. 01-29/10/2019

# 3227TN

## Tricotex black

700°C

STOVES&FIREPLACES STOVES&FIREPLACES ST

### Description

Tricotex packing is a type of gasket made by braiding black “HT” glass filaments, which allow the white packing to withstand temperatures of up to 700°C. The unique type of braiding achieved with needle machines prevents fraying on cutting.

### Applications

Ovens, pellet stoves, wood-burning stoves, fireplaces, direct vent fireplaces, wood stoves and boilers.

| Standard sizes | |
|---|---|
| diameter (mm) | rolls (m) |
| 3 | 500 |
| 4 | 500 |
| 5 | 500 |
| 6 | 200 |
| 8 | 200 |
| 10 | 200 |
| 12 | 200 |
| 15 | 100 |
| 18 | 50 |
| 20 | 50 |

| Chemical analysis | | |
|---|---|---|
| Aluminium oxide | $Al_2O_3$ | 12 - 16 % |
| Silicon oxide | $SiO_2$ | 52 - 56 % |
| Calcium oxide | CaO | 16 - 25 % |
| Magnesium oxide | MgO | 0 - 5 % |
| Boron oxide | $B_2O_3$ | 5 - 10 % |
| Alkali content | $Na_2O+K_2O$ | 0 - 1 % |
| Iron oxide | $Fe_2O_3$ | 0.05 - 0.4 % |
| Titanium oxide | $T_1O_2$ | 0 - 0.8 % |
| Fluorine | $F_2$ | 0 - 1 % |

| Characteristics of the glass yarn | |
|---|---|
| Fibre diameter | 6-9 µm |
| Colour | black |

| Mechanical characteristics of the glass yarn | |
|---|---|
| Virgin filament tensile test | 34000 MPa<br>493 ksi |
| Impregnated strand tensile test | 2400 MPa<br>348 ksi |
| Tensile modulus | 73 GPa<br>10.5 msi |
| Toughness | Min.50 cN/Tex |
| Elongation at break | 2.2 - 2.5% |
| Elastic recovery | 100% |

| Electrical characteristics of the glass yarn | |
|---|---|
| Dielectric constant<br>- at 1MHz<br>- at 1GHz | <br>6.4<br>6.13 |
| Loss angle<br>- at 1MHz<br>- at 1GHz | <br>0.0018 - 0.0039<br>0.0039 |
| Volume resistivity | 1014 - 1015 Ohm/cm |
| Surface resistivity | 1013 - 1014 Ohm/cm |
| Dielectric strength | 8 - 12 kV/mm |

| Thermal characteristics of the glass yarn | |
|---|---|
| Operating temperature<br>- black | <br>700°C |
| Linear coefficient of thermal expansion | 5.3 10-6 m/m/ °C |
| Specific heat<br>- at 20°C<br>- at 200°C | <br>0.764 J/g. °K<br>0.958 J/g.°K |
| Coefficient of thermal conductivity | 1.0 W/m.°K |

The products are classified as non-hazardous in accordance with the European 67/548/EEC standard and its amendments.

Company with a quality management system certified by DNV - UNI EN ISO 9001. The information in this data sheet is merely indicative and as such it is not possible to check the methods and conditions of use of the product; in this regard the company cannot accept any responsibility

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