



Round glass packing

GLASS GLASS GLASS GLASS GLASS GLASS GLASS GLA

Description

An excellent substitute for asbestos; this glass fibre packing is made entirely from 6-9 µm glass yarns.

Applications

Sealing joints in boilers, industrial furnaces, oven doors, coke furnaces, cookers and stoves, fire doors.

Standard sizes

diameter (mm)	rolls (kg)
4	5
5	5
6	10
8	10
10	10
12	10
14	15
15	15
16	15
18	20
20	20
22	25
25	25
28	25
30	25
35	25
40	30
50	30
60	30

On request, sizes up to a diameter of 100 mm can be produced.
Available also by the metre, with lower density, softer and more flexible.

Chemical analysis

Aluminium oxide	Al ₂ O ₃	12 - 16 %
Silicon oxide	SiO ₂	52 - 56 %
Calcium oxide	CaO	16 - 25 %
Magnesium oxide	MgO	0 - 5 %
Boron oxide	B ₂ O ₃	5 - 10 %
Alkali content	Na ₂ O+K ₂ O	0 - 1 %
Iron oxide	Fe ₂ O ₃	0.05 - 0.4 %
Titanium oxide	TiO ₂	0 - 0.8 %
Fluorine	F ₂	0 - 1 %

Characteristics of the glass yarn

Fibre diameter	6-9 µm
Colour	white

Mechanical characteristics of the glass yarn

Virgin filament tensile test	34000 MPa 493 ksi
Impregnated strand tensile test	2400 MPa 348 ksi
Tensile modulus	73 GPa 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	
- at 1MHz	6.4
- at 1GHz	6.13
Loss angle	
- at 1MHz	0.0018 - 0.0039
- at 1GHz	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	550°C
Linear coefficient of thermal expansion	5.3 10-6 m/m/ °C
Specific heat	
- at 20°C	0.764 J/g. °K
- at 200°C	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.