

A-GLASS ACOUSTIC PACKING FIBRE – 4003RGS

DESCRIPTION

Continuous monofilament glass fibre material, capable of withstanding thermal shock and vibration and showing good recovery from compression. The material is stable in arduous environments, does not accelerate corrosion of metallic components and exhibits excellent acoustic properties, making it suitable for use in hot silencing applications in the presence of high gas flow-rates. Examples include GT exhausts silencing, steam vent silencing and compressed air bleed silencing. Also used in other specialist applications, including hot/cold gas filtration, lubrication in metal extrusion processes, etc.

CHEMICAL COMPOSITION

Chemical analysis:-

Silicon oxide	SiO ₂	72.5%
Aluminium oxide	Al ₂ O ₃	1.4%
Iron oxide	Fe ₂ O ₃	0.1%
Calcium oxide	CaO	9.2%
Magnesium oxide	MgO	3.2%
Sodium oxide	Na ₂ O	13.2%
Potassium oxide	K ₂ O	0.4%

PHYSICAL CHARACTERISTICS

Filament Diameter Distribution (typical):-

Diameter	26um	27um	28um	29um	30um	31um	32um
Contribution	6%	15%	22%	25%	17%	11%	4%

Filament Length: - Produced as continuous monofilament

Thermal and Volumetric Stability:-

Static Test (50kg/m ² loading)			
Packing Density	110kg/m ³	115kg/m ³	125kg/m ³
Upper Stability Temperature	550°C	575°C	600°C

Packing Density Range 110kg/m³ - 130kg/m³

Acoustic Absorption (typical):-

Impedance tube – material compressed to 120kg/m³ at 380mm thickness

Frequency (Hz)	31.5	63	125	250	500	1000
Absorption coefficient (a)	0.45	0.55	0.75	0.85	0.95	0.95

Maximum Working Temperature: 575°C.