

8170 Glass MoS₂ NFF

Material Data Sheet

Product Information

8170, Glass MoS₂ NFF

A glass fibre reinforced PTFE alloy with molybdenum disulphide.

Features

The glass filler used is E-glass milled fibre with a nominal diameter of 13 microns. This ensures an even dispersion of the molybdenum disulphide, thereby improving material hardness and lubrication properties. Mouldings have a homogenous and dense structure with a smooth surface that is grey in colour.

Benefits

This grade is designed to improve the creep resistance of virgin PTFE at both low and high temperatures.

Wear and friction behaviour are also improved with minimal effect on electrical properties. Compared with 8176 grade, 8170 grade has improved lubricating properties. It also results in better sealing and is less abrasive on counter surfaces.

Typical Applications

- Hydraulic rod and piston seals
- Guide rings and chevron packings
- Slide bearings
- Valve seats

Avoid use with Hydrofluoric Acid (HF) and strong alkalis.

Delivery Program

This product is sealed in two-layer plastic bags inside a rigid 25kg drum. It should be stored at 22°C to 25°C for 24 hours before processing.

This grade is available as:

- Non free flow
- Free flow available under product code 8470

Physical Properties

Property	Value	Unit
Colour	Grey	
Bulk Density	500	g/l
Specific Gravity	2.28	g/cm ³
Hardness	62-63	Shore D
Tensile Strength	19	MPa
Elongation	220	%
Shrinkage	2.2	%

