

Filled PTFE - Grey (PTM15)

Swan Seals PTFE-M is a grey, 15 %Glass and 5% Molybdenum Disulphide filled PTFE (Polytetrafluoroethylene). The fillers make the material more resistant to cold flow and gives the properties to be used as a hydraulic seal (with energizer to seal at low pressures). It has similar chemical resistance and the same temperature range as virgin PTFE that makes it very universal. This material should not be used for dynamic applications in water.

PHYSICAL PROPERTIES

Specific gravity	DIN 53479	g/cm ³	2.3
Hardness	ASTM D2240	Shore D	55 - 64
Tensile strength	ASTM D4894	N/mm ²	>18
Elongation at break	ASTM D4894	%	>230
Min. Service temperature		°C	-200
Max. Service temperature		°C	260

MAIN APPLICATION

Piston- / Rodseals with energizer
Back up rings
Special seals and O-Rings
High and low temperature application
Chemical resistance application
Low friction application

CHEMICAL RESISTANCE

Water up to 70°	R
Water up to 90°	R
HFA	R
HFB	R
HFC	R
HFD	R
Mineral Oils	R
Vegetable Oils	R
Fuels	R
Ozone	R
Air up to 100°	R
Air up to 150°	R
Air up to 200°	R

KEY TO CHEMICAL RESISTANCE

R = resistance
S = suitable
U = unsuitable

ANALYSIS AND EVALUATION

The properties relate to fundamental values of PTFE. Products values mentioned above are corresponding to ASTM or DIN norm and have been tested on standardized plates in the laboratory.