

## 25% Glass Filled PTFE (PTG25)

Swan Seals PTG25 is a Glass fibre reinforced PTFE (Polytetrafluorethylene). The Material has outstanding chemical, wear and mechanical properties. The wide range of temperature (-200°C to +260°C) and the mechanical properties make Swan Seals PTG25 a universally useable material for many applications, especially in applications under high mechanical stress.

### PHYSICAL PROPERTIES

Specific gravity	ASTM D792	-	2,23
Hardness	ASTM D2240	Shore D	63
Tensile strength	ASTM D1457	N/mm <sup>2</sup>	16
Elongation at break	ASTM D1457	%	260
Friction coefficient dynamic	ASTM D3028 (1)	-	0,07
Min. Sevice temperature		°C	-200
Max. Sevice temperature		°C	260

### MAIN APPLICATIONS

Piston / Rod seals with energizer
Back up rings
Special seals and O-Rings
High and low temperature applications
Chemical resistance applications
Chevron seals

### 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 PTG25. Product values mentioned above are corresponding to ASTM or DIN norm and have been tested on standardized plates in the laboratory.