

25% Carbon + 5% Graphite Filled PTFE (PTC25)

Swan Seals PTC25 is a Carbon reinforced modified PTFE (Polytetrafluorethylene). The Material has outstanding chemical, sliding and wear properties. The wide range of temperature (-200°C to +260°C) and the mechanical properties make Swan Seals PTC25 a universally useable material for many applications, especially where the medium is water or a water based fluid.

PHYSICAL PROPERTIES

Specific gravity	ASTM D792	-	2,10
Hardness	ASTM D2240	Shore D	63
Tensile strength	ASTM D1457	N/mm ²	15
Elongation at break	ASTM D1457	%	180
Friction coefficient dynamic	ASTM D3028 (1)	-	0,06
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 application
Chemical resistance application
Low friction application
Water / water based fluids

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 PTC25. Product values mentioned above are corresponding to ASTM or DIN norm and have been tested on standardized plates in the laboratory.