OIL & GAS MATERIALS

fluorten®
PTFE & TECHNOPOLYMERS MANUFACTURING

FLUORTEN CODE	MATERIAL	COLOR	APPLICATION	TEMP. RANGE	COEF. FRICTION	NORSOK M710 ED3	API 6A
F10-01	PREMIUM GRADE VIRGIN PTFE	white	Static and dynamic applications, suitable only for light to moderate conditions. Low resistance to heat and wear. Low gas permeability and discrete cryogenic properties.	-260 +280 °C	0,09	●	●
F10-02	MODIFIED PTFE	white	Improved version of the above material: better permeability (lower porosity), higher mechanical characteristics, lower deformation under load, better elasticity.	-260 +280 °C	0,09	●	●
F10-04	FILLED PTFE	grey	Good wear resistance. The presence of MoS2 reduces coefficient of friction and anti-sticking behavior. MoS2 and special low porosity glass fibers can improve the typical porosity of standard glass filled compounds.	-200 +220 °C	0,08		
F10-06	MODIFIED FILLED PTFE	black	Low filled modified PTFE. Excellent wear resistance, also in dry running conditions.	-150 +280 °C	0,1		
F10-08	MODIFIED FILLED PTFE	brown	Excellent wear resistance, also in dry running conditions. Both rotating and reciprocating movements. Hard shaft material not required.	-200 +280 °C	0,12		
F10-09	MODIFIED FILLED PTFE	tan	Low filled modified PTFE. Self lubrificating material, optimal friction and wear properties even at high temperature. Good for soft mating materials, as it doesn't create wear on metals. Good for rotary and dynamic applications in general. Good for food service.	-240 +300 °C	0,13		
F10-12	UHMW-PE	white	Extreme wear resistance material (low temperature conditions). Excellent cryogenic properties.	-276 +95 °C	0,2		
F10-13	FEP	white	Excellent cryogenic properties. Often used as static sealing material in oxygen applications.	-270 +220 °C	0,18		
F10-14	PCTFE	white	Excellent material for moderate dynamic applications under cryogenic temperatures.	-270 +150 °C	0,15		
F10-15	PEEK NATURAL	brown	High load resistance, also at high temperatures. Used as back-up ring material both in radial and face seals.	-200 +310 °C	0,40	●	●
F10-16	PEEK CA	black	High load resistance, also at high temperatures. Used as back-up ring material both in radial and face seals.	-160 +310 °C	0,25	●	●
F10-17	POLYAMIDE	white	Used for back-up and seals material.	-70 +150 °C	0,35		
F10-18	PEEK FE	brown	Lubricated PEEK.	-160 +310 °C	0,25	●	●
F10-20	PEEK FC30	black	Lubricated and wear resistance PEEK.	-270 +310 °C	0,25	●	●
F10-21	MODIFIED FILLED PTFE	black	High filled modified PTFE. Excellent wear resistance, also in dry running conditions.	-200 + 310 °C	0,20	●	●
F10-22	MODIFIED FILLED PTFE	white	High filled modified PTFE. Excellent wear resistance, also in dry running conditions.	-270 +280 °C	0,10	●	●

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F10-86	FILLED POLYIMMIDE	black	Original Dupont™ Vespel® SP21 - Low friction, high wear resistance material suitable for wide range of working temperature (-270°C / 350°C). Lowest operative torque and deformation under load. Great creep resistance at high temperature. Not suitable for stem and water where temperature is higher than 100°C (hydrolysis).	-270 +350 °C	0,12		
F10-31	VICTREX PEEK CT™ 100	natural beige	Original Victrex CT™ 100. PEEK grade suitable for cryogenic applications. It offers enhanced toughness and ductility at cryogenic temperature.	-270 +250 °C	n.a.		
F10-167	VICTREX PEEK CT™ 200	green	Original Victrex CT™ 200. PEEK grade suitable for cryogenic applications. It offers a lower static and dynamic coefficient of friction which helps minimizing torque and wear allowing smaller actuators and saving space and weight.	-270 +250 °C	n.a.		

n.a. = not available

APPLICATIONS:

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EN 9100: 2018 - CERTIFICATE N.5695/3
ISO 9001: 2015 - CERTIFICATE N.21
ISO 14001: 2015 - CERTIFICATE N.27