

OIL & GAS MATERIALS



FLUORTEN CODE	MATERIAL	COLOUR	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 but low gas permeability and discrete cryogenic properties.	-260 °C +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 °C +280 °C	0,09	●	●
F10-04	MODIFIED PTFE	Grey	Good wear resistance. The presence of MoS2 reduce the coefficient of friction, the anti-sticking behavior. The MoS2 and the special low porosity glass fibers can improve the typical porosity of standard glass filled compounds.	-200 °C +220 °C	0,08		
F10-06	MODIFIED FILLED PTFE	Black	Low filled modified PTFE. Excellent wear resistance, also dry running conditions.	-150 °C +280 °C	0,1		
F10-08	MODIFIED FILLED PTFE	Brown	Excellent wear resistance, also dry running conditions. Both rotating and reciprocating movements. Hard shaft material not required.	-200 °C +280 °C	0,12		
F10-09	MODIFIED FILLED PTFE	Tan	Low filled modified PTFE. Self lubricating 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. Also good for food service.	-240 °C +300 °C	0,13		
F10-12	UHMW-PE	White	Extreme wear resistance material (low temperature conditions). Excellent cryogenic properties.	-276 °C +95 °C	0,2		
F10-13	FEP	White	Excellent cryogenic properties. Often used as STATIC sealing material in oxygen applications.	-270 °C +220 °C	0,18		
F10-14	PCTFE	White	Excellent material for moderate dynamic applications under cryogenic temperatures.	-270 °C +150 °C	0,15		
F10-15	PEEK NATURAL	Brown	High load resistance, also at elevated temperatures. Used as backup ring material both in radial and face seals.	-200 °C +310 °C	0,40	●	●
F10-16	PEEK CA	Black	High load resistance, also at elevated temperatures. Used as backup ring material both in radial and face seals.	-160 °C +310 °C	0,25	●	●
F10-17	POLYAMIDE	White	Used for back up and seals material.	-70 °C +150 °C	0,35		
F10-18	PEEK FE	Brown	Lubricated PEEK.	-160 °C +310 °C	0,25	●	●
F10-20	PEEK FC30	Black	Lubricated and wear resistance PEEK.	-270 °C +310 °C	0,25	●	●
F10-21	MODIFIED FILLED PTFE	Black	High filled modified PTFE. Excellent wear resistance, also dry running conditions.	-200 °C + 310 °C	0,20	●	●
F10-22	MODIFIED FILLED PTFE	White	High filled modified PTFE. Excellent wear resistance, also dry running conditions.	-270 °C +280 °C	0,10	●	●
F10-86	FILLED POLYIMMIDE	Black	Original Dupont™ Vespel® SP21 - Low friction, high wear resistance material suitable for the widest range of working temperature (-270°C à 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 °C +350 °C	0,12		

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