

# Spring energized seals

## SEALS MATERIALS

### Jacket materials

PN CODE	Fluorten CODE	CODE Description	Colour	Application	Temp. Range	Coef. Friction	Relative Wear
01	F10-01	<b>VIRGIN PTFE</b>	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. <b>Norsok M710 Ed.3 and API 6A approved. FDA compliant.</b>	-260 °C +280 °C	0,09	1
02	F10-02	<b>MODIFIED PTFE</b>	White	Improved version of the above material: better permeability (lower porosity), higher mechanical characteristics, lower deformation under load, better elasticity. <b>Norsok M710 Ed.3 and API 6A approved. FDA compliant.</b>	-260 °C +280 °C	0,09	1
03	F10-04	PTFE/Glass/MoS2	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	10
04	F10-06	MODIFIED FILLED PTFE	Black	Low filled modified PTFE. Excellent wear resistance, also dry running conditions.	-150 °C +280 °C	0,1	30
05	F10-08	POLYMER FILLED MODIFIED 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	35
06	F10-09	POLYMER FILLED MODIFIED 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	30
07	F10-12	UHMW-PE	White	Extreme wear resistance material (low temperature conditions). Excellent cryogenic properties. <b>FDA compliant.</b>	-270 °C +95 °C	0,2	50
08	F10-13	FEP	White	Excellent cryogenic properties. Often used as <b>STATIC</b> sealing material in oxygen applications.	-270 °C +220 °C	0,18	1
09	F10-14	PCTFE	White	Excellent material for moderate dynamic applications under cryogenic temperatures.	-270 °C +150 °C	0,15	20
10	F10-15	<b>PEEK Natural</b>	Brown	High load resistance, also at elevated temperatures. Used as backup ring material both in radial and face seals. <b>Norsok M710 Ed.3 and API 6A approved. FDA compliant.</b>	-200 °C +310 °C	0,25	20
11	F10-16	<b>PEEK CF</b>	Black	High load resistance, also at elevated temperatures. Used as backup ring material both in radial and face seals. <b>Norsok M710 Ed.3 and API 6A approved.</b>	-160 °C +310 °C	0,15	20
12	F10-17	Polyamide	White	Used for back up and seals material	-70 °C +150 °C	0,35	50
13	F10-18	<b>PEEK FE</b>	Brown	Lubricated PEEK. <b>Norsok M710 Ed.3 and API 6A approved. FDA compliant.</b>	-160 °C +310 °C	0,25	25
14	F10-20	<b>PEEK FC30</b>	Black	Lubricated and wear resistance PEEK. <b>Norsok M710 Ed.3 and API 6A approved.</b>	-270 °C +310 °C	0,25	25
15	F10-21	<b>MODIFIED FILLED PTFE</b>	Black	High filled modified PTFE. Excellent wear resistance, also dry running conditions. <b>Norsok M710 Ed.3 and API 6A approved.</b>	-200 °C +310 °C	0,20	25
16	F10-22	<b>MODIFIED FILLED PTFE</b>	White	High filled modified PTFE. Excellent wear resistance, also dry running conditions. <b>Norsok M710 Ed.3 and API 6A approved.</b>	-270 °C +280 °C	0,10	30

Special materials available on demand in according to applications, if required.