FLANGE ISOLATION GASKET KIT Kitrix® Type LGCIK

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LGCIK sealing Gaskets has the excellent sealing and insulating design for all types of flanges.

The sealing elements encapsulated in the special designed groove, avoid breaking the sealing element when the bolts torque is not equal.

The materials such as Nitrile, EPDM, VITON and Teflon can be used as sealing elements, this increases the options for different working conditions.

The LGCIK is available in both full-face (Type E) and ring style (Type F) configurations.



Depending on the selected sealing element, the LGCIK is rated for most all hydrocarbon and water service applications. Both retainer and sealing element's temperature limit should be considered together while choose the material. Refer to chart for sealing gasket temperature range and material compatibilities.

Properties	ASTM	PHENOLIC	Neoprene Faced Phenolic	G7	G10	G11
Water absorption (%)	D 570	1.6	1.6	0.07	0.1	0.1
Flexural Strength (psi)	D 790	22,500	22,500	27,000	55,000	55,000
Compressive Strength (psi)	D 695	25,000	25,000	40,000	50,000	50,000
Dielectric Strength (Volts/Mil)	D 149	500	500	350	550	550
Tensile strength (psi)	D 638	20,000	20,000	25,000	50,000	41,000
Insulation Resistance (Mega.Ohms)	D 257	40.000	40,000	2,500	200,000	200,000
Operating Temperature (°C)	-	-54 to +104	-54 to +79	-196 to +232	-196 to +150	-196 to +200

GASKET MATERIAL:

Properties	ASTM	PTFE
Water absorption (%)	D 570	0.01
Recovery (%)	F36 M	40
Compressibility (%)	F36 M	10
Dielectric Strength (Volts/Mil)	D 149	430
Tensile strength (MPa)	F 152	15
Insulation Resistance (Mega.Ohms)	D 257	2.0X10 ⁷
Operating Temperature (°C)	-	-196 to +260

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SEAL ELEMENT TEMPERATURE LIMITS:

Properties	NBR	VITON	PTFE/PTFE-SE	Neoprene	EPDM
Operating Temperature (°C)	-40 to +121	-29 to +177	-196 to +260	-40 to +79	-54 to +149

SLEEVE MATERIAL:

Properties	ASTM	MYLAR	NOMEX	Phenolic	G10	G11
Water absorption (%)	D 570	0.8	N/A	1.6	0.1	0.1
Flexural Strength (psi)	D 790	13,000	20,000	16,000	55,000	55,000
Dielectric Strength (Volts/Mil)	D 149	4,000	400	400	550	550
Operating Temperature (°C)	-	-54 to +149	-54 to +232	-54 to +104	-196 to +150	-196 to +200

Properties	ASTM	PTFE	MICA
Water absorption (%)	D 570	0.01	1.0
Flexural Strength (psi)	D 790	/	29,000
Dielectric Strength (Volts/Mil)	D 149	430	305
Operating Temperature (°C)	17 - N	-196 to +260	-200 to +700

WASHER MATERIAL:

Properties	ASTM	Phenolic	G7	G10	G11	MICA
Water absorption (%)	D 570	1.6	0.07	0.1	0.1	1.0
Compressive strength (psi)	D 695	33,000	40,000	55,000	55,000	57,500
Dielectric Strength (Volts/Mil)	D 149	500	350	550	550	635
Operating Temperature (°C)	- alle	-54 to +104	-196 to +232	-196 to +150	-196 to +200	-200 to +700

Properties	ASTM	PTFE
Water absorption (%)	D 570	0.01
Compressibility (%)	F36 M	10
Dielectric Strength (Volts/Mil)	D 149	430
Operating Temperature (°C)	-	-196 to +260

STEEL WASHER MATERIAL:

- Zinc Plated Steel (ZPS)
- Stainless Steel Washer (SS)
- Xylan coated Carbon Steel (XPS)