

MATERIAL PROPERTIES

Technical applicability				
Gasket type	Temp. (°C)	Pressure (bar)	Temp. (°F)	Pressure (psi)
Corrosive stress				
PTFE- Gasket	-100..+250	100 (to 195°C) 50 (196°C to 220°C) 10 (221°C to 250°C)	-148..482	1450 (to 195°C) 725 (196°C to 220°C) 145 (221°C to 250°C)
Low stress				
FKM-gasket	-20..200	10/16	-4..392	145/232
FFKM-gasket	-25..325	10/16	-13..617	145/232
EPDM-gasket	-50..130	10/16	-58..266	145/232
NBR-gasket	-30..100	10/16	-22..212	145/232
Silicone-gasket	-60..180	10/16	-76..356	145/232
Moderate stress				
Aramid fibre gasket	-100..175	60	-148..347	870
High stress				
Graphite gasket	-200..500	250	-328..932	3625
Phlogopit mica gasket	-200..1000	5 (to 410°C) 60 (411°C to 900°C) 0 (901°C to 1000°C)	-328..1832	72 (to 410°C) 870 (411°C to 900°C) 0 (901°C to 1000°C)

Physical and Chemical Properties		
Gasket type	Chemical	Physical
PTFE- Gasket	Almost universally chemical resistant, suitable for food, strong acids, bases	Good temperature resistance at high pressure, almost unlimited ageing resistance
FKM-gasket	Chemicals, acids, bases	High temperature resistance under elastomers, suitable for vacuum, very good ageing stability
FFKM-gasket	Chemicals, acids, bases	Higher temperature resistance under elastomers, suitable for vacuum, very good ageing resistance
EPDM-gasket	acids, bases	Good ageing resistance
NBR-gasket	Oils, fats, fuels	Sufficient ageing resistance
Silicone-gasket	Oils, fats	Average ageing resistance
Aramid-fibre - Gasket	oils, fats, water, moderate acids	Good pressure and temperature resistance
Graphite gasket	universal chemical resistance, acids, alkalis, oils, greases, fuels, refrigerants, solvents, gases	Extremely high pressure and temperature resistance, suitable for vacuum
Phlogopit mica gasket	high chemical resistance	Extremely high temperature resistance at moderate pressure