

Leader Elastalon

Emission Reduction Gaskets

DESCRIPTION

Elastalon gaskets are manufactured by applying ePTFE over a corrugated metal core. The design features a unique corrugation pattern that increases both groove depth and peak pitch, significantly enhancing sealability compared to traditional corrugated gaskets.

APPLICATION

Elastalon is specifically engineered to address fugitive emissions and compliance challenges. It leverages the chemical resistance of expanded PTFE (ePTFE), making it ideal for applications where graphite is incompatible or where a clean, non-contaminating process is essential. Pressure ratings range from vacuum to ASME Class 300 and DIN/EN Class PN40. For pressures exceeding Class 300, please consult the Engineering team

CHEMICAL COMPATIBILITY

Elastalon flange gaskets can be used in a wide variety of media, i.e. a pH range varying from 0-14. Our application and compatibility guide is available upon request.

AVAILABLE OPTIONS

Standard gaskets are available in accordance with ASME B16.21 (1/2" – 24"), EN 12560-1 as well as EN 1514-1 (DN 10–DN 600). Standard thickness is 1/8". Custom or specialty gaskets can be manufactured to customer drawings or specified dimensions. Please note that tooling may be required.

SEALING CHARACTERISTICS

- Perfect sealability on low bolt load
- High recovery
- Suitable for irregular surfaces

TECHNICAL DATA	
Maximum Temperature (°F)	500
Maximum Pressure (PSI)	DIN PN40 & ASME B16.5 300 Class
Minimum Initial Stress [DIN E 2505 part 2] [N/mm2]	15
Maximum Initial Stress [DIN E 2505 part 2] [N/mm2]	300
M-Value	1.5
Y-Value	800 PSI
Gasket Required Flange Roughness (Ra micron)	3.2-6.3
Gasket Required Flange Roughness (RMS)	125-250
Maximum Seating Stress [Qsmax bei RT EN13555] [N/mm2]	225
Recommended Seating Stress at Assembly	3000 PSI
ROTT (Gb)	32
ROTT (a)	0.718
ROTT (Gs)	0.001

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