LeaderKAM Kammprofile Gasket Style F

Kammprofile Gaskets

DESCRIPTION

LeaderKAM style F kammprofile gaskets are specifically designed for confined flange configurations, including male and female, tongue and groove, and recessed flange assemblies. They are commonly used in heat exchanger applications. Each gasket features a metallic core with precision-machined concentric grooves on both sides, covered with soft sealing layers made of graphite, PTFE, or LeaderTHERM NXT 1010 (a modified phlogopite for high-temperature performance).

APPLICATION

LeaderKAM kammprofile gaskets are widely used in the petrochemical industry, steam systems, offshore and onshore exploration, pipelines, pressure vessels, heat exchangers, and coolers. They are especially effective in heat exchanger applications where process conditions fluctuate or cycle. These gaskets are an excellent alternative to traditional metal jacketed gaskets.

CHEMICAL COMPATIBILITY

LeaderKAM kammprofile gaskets are compatible with a broad range of media, supporting the full pH spectrum from 0 to 14.

AVAILABLE OPTIONS

These gaskets are available in a wide range of sizes and materials, suitable for both standard and custom equipment. Upon request, EN 10204 3.1 material certificates and NACE MR0175/ISO 15156 compliance statements can be provided.

TEMPERATURE RANGE

With graphite sealing layers, LeaderKAM gaskets are suitable for temperatures from –450 °F to 850 °F (up to 1200 °F for steam). When using LeaderTHERM (phlogopite) layers, they can withstand temperatures up to 1800 °F. For specific applications, a detailed compatibility guide is available on request.

APPROVALS & CERTIFICATES

- TA-Luft
- BAM
- EN 10204 3.1

SEALING CHARACTERISTICS

- Excellent sealing performance across a broad range of seating stresses
- Suitable for low-torque flange assemblies
- Capable of withstanding high pressures and temperatures
- Wide chemical resistance (dependent on selected core and facing materials)
- Fire-safe design
- Ideal for applications with fluctuating temperatures and pressures when using FG or NXT materials
- Blowout resistant

TECHNICAL DATA	
Maximum Temperature [°F]	See material table below
Maximum Pressure [PSI]	ASME B16.5 2500 Class
Minimum Initial Stress [DIN E 2505 part 2]	2175 psi
Maximum Initial Stress [DIN E 2505 part 2]	43511 psi
M-Value	2
Y- Value [psi]	2500
Gasket Required Flange Roughness [Ra micron]	3.2-6.3
Gasket Required Flange Roughness [RMS]	125-250
Max Seating Stress [Qsmax bei RT EN13555]	72518

LOCATION
850 Sens Road, La Porte, TX 77571

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Color Code Chart - ASME B 16.20

Material	Minimum °F	Minimum °C	Maximum °F	Maximum °C	Abbreviation	Guide Ring Color Code
304 Stainless Steel	-320	-195	1400	760	304	Yellow
316L Stainless Steel	-150	-100	1400	760	316L	Green
317L Stainless Steel	-150	-100	1400	760	317L	Maroon
321 Stainless Steel	-320	-195	1400	760	321	Turquoise
347 Stainless Steel	-320	-195	1600	925	347	Blue
Carbon Steel	-40	-40	1000	540	CRS	Silver
20Cb-3 (Alloy 20)	-300	-185	1400	760	A-20	Black
HASTELLOY® B 2	-300	-185	2000	1090	HAST B	Brown
HASTELLOY® C 276	-300	-185	2000	1090	HAST C	Beige
INCOLOY® 800	-150	-100	1600	870	IN 800	White
INCONEL® 600	-150	-100	2000	1090	INC 600	Gold
INCONEL® X750	-150	-100	2000	1090	INX	No Color
MONEL® 400	-200	-130	1500	820	MON	Orange
Nickel 200	-320	-195	1400	760	NI	Red
Titanium	-320	-195	2000	1090	TI	Purple

Non-Metallic Facings – ASME B 16.20

Material	Minimum °F	Minimum °C	Maximum °F	Maximum °C	Abbreviation	Guide Ring Color Code
Ceramic	-350	-212	2000	1090	CER	Light Green
Flexible Graphite	-350	-212	975	510	FG	Gray
PTFE	-400	-240	500	260	PTFE	White
LeaderTherm NXT	-350	-212	1800	677	LTNXT	Light Blue
LeaderTherm / Graphite	-350	-212	1500	816	LTD	Lt Blue / Gray

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