

LeaderKAM Kammprofile Gasket Style KV9

Kammprofile Gaskets

DESCRIPTION

LeaderKAM Kammprofile gaskets consist of a metallic core with machined concentric grooves. Both faces are produced with soft sealing layers consisting of either graphite, PTFE or LeaderTHERM NXT 1010 (high temp.modified Phlogopite). however also metallic (non-ferro) layers of pure silver or aluminium can be produced.

APPLICATION

(Petro-) Chemical Industry, Steam, On- and Offshore exploration, pipeline systems, pressure vessels, heat exchangers and coolers. LeaderKAM Kamprofile gaskets have proven records in demanding application with heat-exchangers with fluctuating and cycling process conditions. Superb alternative for metal jacketed gaskets.

CHEMICAL COMPATIBILITY

LeaderKAM Kammprofile Gaskets are suited for a wide variety of media, e.g. a pH

range varying from 0-14. Temperature range from -250 °C up to 450 degrees °C (steam 550 °C) with graphite layers. Leadertherm Mica layers can withstand temperatures of 900 °C. Application/ compatibility guide is available on request.

DELIVERY OPTIONS

All dimensions in a wide variety of materials are possible. Non-standard equipment gaskets can be manufactured up to a diameter of 6000 mm. EN10.204 3.1 certificates can be delivered on request, as well as NACE MR0175/ISO 15156 conformity statement.

TEMPERATURE

LeaderKAM Kammprofile Gaskets are suited for temperature range from -250 °C up to 450 degrees °C (steam 550 °C) with graphite layers. LeaderTHERM (phlogopite) layers can withstand temperatures of 900 °C

APPROVALS & CERTIFICATES

- EN10.204 3.1

SEALING CHARACTERISTICS

- blow out safe
- Rigid construction and easy to install
- Excellent sealing characteristics for a wide range of seating stresses
- Suitable for low torque flange-constructions
- High pressure and temperature range
- Broad chemical resistance (pending on the metallic materials and sealing layers)
- Firesafe
- Design suitable for fluctuating temperatures and pressures

TECHNICAL DATA

max Temperature [°C]	See material table below
min Temperature [°C]	See material table below
max Pressure [bar]	450
Minimum initial stress [DIN E 2505 part 2] [N/mm ²]	15
Maximum initial stress [DIN E 2505 part 2] [N/mm ²]	500
M-Value	2

LOCATIONS

850 Sense Road LA PORTE, TX 77571, USA GLOBAL HEADQUARTERS

8622 South Choctaw Drive BATON ROUGE, LA, USA 70815

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TECHNICAL DATA

Y- Value [psi]	2500
min Seating stress [Qmin(L 0,01), mg/(s*m)] at RT 40 bar [N/mm2]	>15
Gasket required flange roughness [Ra micron]	3,2-6,3
Gasket required flange roughness [RMS]	125-250
max Seating stress [Qsmax bei RT EN13555] [n/mm2]	500
Relaxation PQR (30 MPA 150°C) [%]	0.92
Residual seating stress , [QA=40 MPA,Qmin(L 0,01), mg/(s*m)] bei RT 40 bar [N/mm2]	9

SOFT FILLER MATERIALS

	Identification	Color coding	Temperature Range
	ASME B16.20	ASME B16.20	Degrees C.
Graphite	FG	Gray stripe	- 250 / + 450 (+ 550)
PTFE	PTFE	White stripe	-240 / +260
Ceramic	CER	Light green stripe	- 50 / + 1000
Mica	MICA	Light blue stripe	- 50 / + 900

METALLIC MATERIALS

	Identification	Color coding	Temperature Range
	ASME B16.20	ASME B16.20	Degrees C.
Carbon Steel	CRS	Silver	- 25 / + 500
SS304(L)	304(L)	Yellow	- 200 / + 900
SS316(L)	316(L)	Green	- 100 / +550
SS321	321	Turquoise	-200/+550
SS347	347	Blue	-200/+550
Duplex (ASTM A182-F51)	31803	No colour	-60/+300
Avesta 254 SMO (6Mo)	31254	No colour	-100/+550
Carpenter 20 CB3	A20	Black	-100/+500
Nickel 200	NI200	Red	-100/+450
Nickel 201	NI201	Red	-100/+550
Monel® / Alloy 400	MON	Orange	-50/+500
Inconel® / Alloy 600	INC600	Gold	-100/+650
Inconel® / Alloy 625	INC625	Gold	-100/+800
Inconel® / Alloy X-750	INX	No colour	-100/+700
Incoloy® / Alloy 800	IN800	White	-100/+550
Incoloy® / Alloy 825	IN825	White	-200/+800
Hastelloy® / Alloy B2	HAST B	Brown	-100/+500
Hastelloy® / Alloy C276	HAST C	Beige	-100/+600
Titanium	TI	Purple	-100/+350
Zirconium	ZIRC	No colour	-50/+900

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