

LeaderKAM Kammprofile Gasket Style KB9

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]	200
Minimum initial stress [DIN E 2505 part 2] [N/mm ²]	15
Maximum initial stress [DIN E 2505 part 2] [N/mm ²]	300
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]	300
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
Hasteloy® / Alloy B2	HAST B	Brown	-100/+500
Hasteloy® / Alloy C276	HAST C	Beige	-100/+600
Titanium	TI	Purple	-100/+350
Zirconium	ZIRC	No colour	-50/+900

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