

Description

The Kammprofile gasket is comprised of a concentrically serrated solid metal core with a soft, conformable sealing material bonded to each face. The soft facing material provides low stress gasket seating, while the serrated geometry of the metal core enhances sealing performance by inducing stress concentrations on the sealing surfaces. The serration profile and graphite thickness are chosen such that at final compression the gasket profile consists of alternating metal and filler boundaries. The kammprofile gasket is particularly well suited to heat exchangers and other large diameter gasket applications where a semi-metallic design is desired for blowout resistance but spiral wound gaskets tend to be fragile and unstable.

Maximum P/T Limits

	<i>Material</i>	<i>Max T</i>	<i>Max P</i>
Facings	Flexicarb	1000°F (537°C)	
	Non-Asbestos Fiber	750°F (400°C)	
	PTFE	500°F (260°C)	
	Soft Metals*	Approx. 800°F (427°C)	
Metals	Carbon Steel	1000°F (537°C)	The same as pressure limits of corresponding ASME flanges
	304 SS	1000°F (537°C)	
	304L SS	1000°F (537°C)	
	316L SS	1500°F (815°C)	
	321 SS	1600°F (870°C)	
	347 SS	1600°F (870°C)	
	410 SS	1560°F (848°C)	
	Alloy 20	1400°F (760°C)	
	Monel	1500°F (815°C)	
	Titanium	1000°F (537°C)	
	Nickel	1400°F (760°C)	
	Inconel 600	2000°F (1092°C)	
	Inconel 625	2000°F (1092°C)	
	Inconel X-750	2000°F (1092°C)	
	Hastelloy B2	2000°F (1092°C)	
	Hastelloy C276	2000°F (1092°C)	
Incoloy 800	2000°F (1092°C)		
Incoloy 825	2000°F (1092°C)		

*Depends on metal

Gasket Data

- ▶ Recommended surface finish 125 - 250 µin cla (3.2 - 6.3 µm cla)
- ▶ Pressure rating is 500 - 2500 psi (350 - 1725 MPa)

Gasket Factors

ASME Constants	m	2
	Y	2500 psi (1725 MPa)
PVRC Constants	Gb	387 psi (2.7 MPa)
	a	0.334
	Gs	14 psi (0.1 MPa)

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