

Description

The H.O.T. Gasket is a spiral wound gasket utilizing a combination of fillers to give superior sealing ability at extremely high temperature applications. Originally developed to accommodate nitric acid applications at elevated temperatures, the H.O.T. graphite / ceramic spiral wound gaskets have been replacing ceramic filled spiral wound gaskets which are being phased out due to inadequate sealing performance. Further research into materials yielded the use of mica in place of ceramic as an even higher temperature, stronger barrier to graphite oxidation. In fact, low pressure applications have found the use of mica alone to give more than satisfactory performance.

Maximum P/T Limits

	<i>Material</i>	<i>Max T</i>	<i>Max P</i>
Fillers	Ceramic/Flexicarb	2000°F (1092°C)	The same as pressure limits of corresponding ASME flanges
	Mica/Flexicarb	1832°F (1000°C)	
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	Ceramic	2000°F (1092°C)	
	PTFE/Flexicarb	500°F (260°C)	
Metals	Carbon Steel	1000°F (537°C)	
	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)		

Required Surface Finish 125 - 250 µin rms

Size Range

Thickness	Inside Diameter	Thickness	Inside Diameter
0.100"	Up to 10"	0.250"	Up to 90"
0.125"	Up to 40"	0.285"	90" & up
0.175"	Up to 60"		

Sealing Element Tolerances

Gasket Size	Inside Diameter	Outside Diameter	Thickness	Gasket Size	Inside Diameter	Outside Diameter	Thickness
Up to 10"	± 1/64"	± 1/32"	± 0.005"	24" to 60"	± 3/64"	± 1/16"	± 0.005"
0" to 24"	± 1/32"	± 1/16"	± 0.005"	60" & Above	± 1/16"	± 1/16"	± 0.005"

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