

The high temperature material, now in a spiralwound gasket for male and female flanges.

The **RAITHERM® Si** spiral wound gasket is designed for male and female joints. Unlike other gaskets, it features an inner ring to control compression. It is manufactured using our proven high-temperature **RAITHERM®** material, based on minerals that are resistant to oxidation at high temperatures.

The dimensions of **RAITHERM® Si** gaskets are directly related to the standard groove dimensions according to **ASME B16.5**.

**RAITHERM® Si** has a nominal thickness of **0.125"** to facilitate alignment during gasket placement. Additionally, it includes a **2.3 mm** inner ring as an integral part of the gasket.

Compression values are calculated based on a **0.025"** reduction in thickness.

It can be supplied with a thickness of **0.175"** under special order.

**Technical data:**

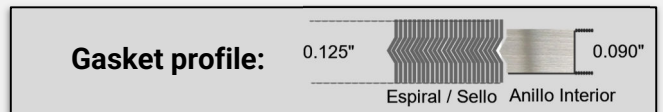
Properties:	Value
Temperature, Maximum:	1,000°C*
Temperature, Minimum:	-25°C
Pressure, Maximum:	434 bar
Flange types:	Male and female.
Flange Surface finish, (Ra):	3.2-6.3µ (125-250 µ")

\* Must select a alloy that support this temperature.

**How to order:**

**Sealing material:** raitherm®  
**Gasket type:** raitherm® Si  
**Inner ring material:** 304 / 316L / MON\*  
**Winding material:** 304 / 316L / MON\*  
**Outer ring material:** -----  
**Diameter:** 1/2" up to 24"  
**Class:** 150#, 300#, 400#, 600#, 900#, 1500#, 2500#

\*\*other alloys under request.



**RAITHERM® Si**

Dimensions for big male and female flanges. (ASME B16.5)

Style Si for big male – female flanges					
NPS	Inner Ring ID	Class 150 - 1500		Class 2500	
		ID	OD	ID	OD
1/4	-	12.7	25.4	-	-
1/2	14.2	25.4	34.9	20.6	34.9
3/4	20.6	33.3	42.9	27	42.9
1	26.9	38.1	50.8	31.8	50.8
1 1/4	34.9	47.6	63.5	41.3	63.5
1 1/2	41.3	54	73	47.6	73
2	52.4	73	92.1	60.3	92.1
2 1/2	63.5	85.7	104.8	76.2	104.8
3	77.8	108	127	95.3	127
3 1/2	90.5	120.6	139.7	-	-
4	103.2	131.8	157.2	120.7	157.2
4 1/2	115.9	144.5	171.5	-	-
5	128.6	160.3	185.7	146.1	185.7
6	154	190.5	215.9	171.5	215.9
8	203.2	238.1	269.9	222.3	269.9
10	254	285.8	323.9	273.1	323.9
12	303.2	342.9	381	330.2	381
14	342.9	374.6	412.8	-	-
16	393.7	425.4	469.9	-	-
18	444.5	489	533.4	-	-
20	495.3	533.4	584.2	-	-
24	596.9	641.4	692.2	-	-

Dimensiones en (mm)

## Important Notes:

Spiral wound gaskets are delicate materials, especially in larger diameters.  
Never carry the gaskets by the inner rings or the spiral.

## Recommendations:

- 1-. Never reuse any type of sealing gaskets; this is for your safety.
- 2-. You must only use standard-compliant gaskets and never use non-standard gaskets.
- 3-. Large dimension spiral wound gaskets are prone to unraveling due to the flexibility of the metal at such diameters.
- 4-. Spiral wound gaskets must have perfectly flat rings for proper operation.
- 5-. Ensure that the spiral wound gaskets to be used comply with the thicknesses of the applicable standard or specification.
- 6-. For proper operation, the flange surfaces must be in perfect condition, complying with a concentric surface finish between 3.2-6.3µ. Likewise, the flanges must be perfectly aligned and parallel.

## Storage:

- 1-. Store the gaskets in a dry place at room temperature.
- 2-. If the gaskets are exposed to greases, oils, or solvents, clean them before use.
- 3-. Protect the sealing faces to prevent damage.
- 4-. Store the gaskets horizontally to avoid tension in spiral wound gaskets.