

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

The **RAITHERM® S** spiral wound gasket is a spiral gasket composed of a metallic strip and a filler of our proven **RAITHERM®** high-temperature material, based on minerals that are resistant to oxidation at high temperatures.

The **RAITHERM® S** style is designed for male-to-female and/or tongue-and-groove joints, fitting inside the flange recess, which controls the gasket compression.

The dimensions of **RAITHERM® S** gaskets are directly related to the standard groove dimensions according to the American standard **ASME B16.5**. Adequate clearance is provided in each gasket design to prevent overlapping in the grooves during installation.

RAITHERM® S has a nominal thickness of **0.125"** to facilitate alignment during gasket placement. 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. Tongue and groove
Flange Surface finish, (Ra):	3.2-6.3µ (125-250 µ")

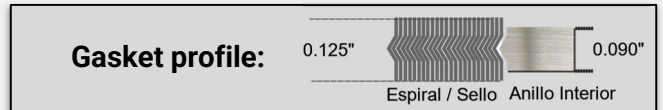
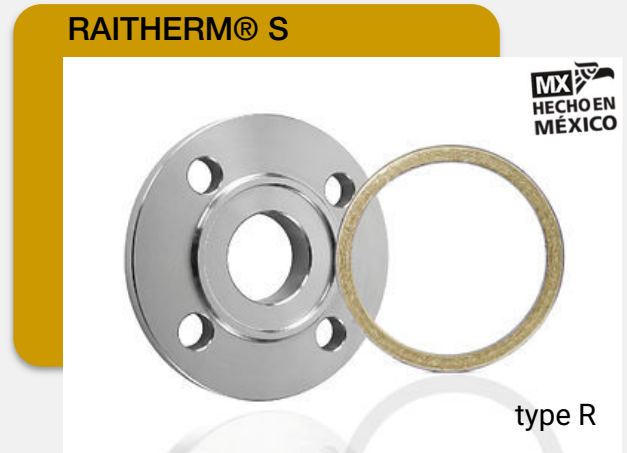
* Must select a alloy that support this temperature.

How to order:

Sealing material: raitherm®
Gasket type: raitherm® S
Inner ring material: ----
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.

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RAITHERM® S

Dimensions for tongue and groove, male and female (ASME B16.5 & EN-1560)

NPS	S1 big male-female flanges				S3 – for big tongue and groove flanges		S4 - for small tongue and groove flanges	
	Class 150-1500#		Class 2500#		Class 150-2500#		Class 150-2500#	
	ID	OD	ID	OD	ID	OD	ID	OD
1/4	12.7	25.4	-	-	12.7	25.4	-	-
1/2	25.4	34.9	20.6	34.9	25.4	34.9	25.4	35.1
3/4	33.3	42.9	27.0	42.9	33.3	42.9	33.3	42.9
1	38.1	50.8	31.8	50.8	38.1	50.8	38.1	47.8
1 1/4	47.6	63.5	41.3	63.5	47.6	63.5	47.6	57.2
1 1/2	54.0	73.0	47.6	73	54	73	54	63.5
2	73.0	92.1	60.3	92.1	73	92.1	73	82.6
2 1/2	85.7	104.8	76.2	104.8	85.7	104.8	85.7	95.2
3	108.0	127.0	95.3	127	108	127	108	117.5
3 1/2	120.6	139.7	-	-	120.6	139.7	120.6	130.2
4	131.8	157.2	120.7	157.2	131.8	157.2	131.8	144.5
4 1/2	144.5	171.5	-	-	144.5	171.5	-	-
5	160.3	185.7	146.1	185.7	160.3	185.7	160.3	173
6	190.5	215.9	171.5	215.9	190.5	215.9	190.5	203.2
8	238.1	269.9	222.3	269.9	238.1	269.9	238.1	254
10	285.8	323.9	273.1	323.9	285.8	323.9	285.8	304.8
12	342.9	381.0	330.2	381.0	342.9	381	342.9	362
14	374.6	412.8	-	-	374.6	412.8	374.6	393.7
16	425.4	469.9	-	-	425.4	469.9	425.4	447.5
18	489.0	533.4	-	-	489	533.4	489	511.2
20	533.4	584.2	-	-	533.4	584.2	533.4	558.8
24	641.4	692.2	-	-	641.4	692.2	641.4	666.8

**Dimensiones en milímetros (mm)

It is of utmost importance that S gaskets be installed with compression limiters to prevent premature failures. Note: NPS 1/4" S3 gaskets are for classes 150 to 600 only, S3 gaskets for NPS 4-1/2" are for classes 150 to 1500 only.

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.