

# Spiralwound

## Low Stress



### Description:

Low Stress Spiralwound Gaskets differs from standard SW because only the filler (Graphite or PTFE) has an higher thickness than the Inner and Outer ring as shown in the picture. This results in lower tightness factors than standard SW gaskets without changing the mechanical characteristics.



They could be manufactured with different materials; From Stainless Steels to special alloys such as Nickel, Titanium, Duplex, Super-duplex etc. Standard fillers are Graphite, PTFE and Mica.

Low Stress spiralwound gaskets are an excellent alternative to sheet gaskets for class 150 and 300 flanges to avoid the risk of exceeding the maximum value of 170 MPa indicated by the standards and in all those conditions in which, the limits of application of plastic gaskets (asbestos or graphite free), high clamping loads are not available.

### WORKING CONDITIONS<sup>(1)</sup>:

Working Temperature:			
With Graphite Filler		°C	550
With PTFE Filler		°C	260
Max. Working Temperature <sup>(2)</sup>		°C	-200

(1) The maximum exercise's condition depend on many factor as the gasket' s dimension, the clamping value between the flanges, etc

(2) As long as the centering ring is not in carbon steel.

### CONSTANT TIGHTENING:

$\sigma_{VU}$		MPa	34
$\sigma_{VO}$		MPa	130
$\sigma_{BO}$	a 300 °C	MPa	100
$\gamma$		MPa	34
m			2,0

### Recommended tightening torque for SWIO-LS gasket for flange ASME B16.5

Inch	Torque (Nm)	Inch	Torque (Nm)
1/2	34	5	111
3/4	34	6	111
1	34	8	111
1 1/4	34	10	178
1 1/2	34	12	178
2	67	14	273
2 1/2	67	16	273
3	67	18	395
3 1/2	67	20	397
4	67	24	559

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences KLINGER Italy has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. KLINGER Italy does not undertake any liability of any kind whatsoever. Is not advised the use in the maximum temperature and at the same time with the maximum pressure.