



## MOR Spiral Wound Gaskets

These gaskets are suitable for a wide range of operating conditions and can be adapted to suit almost all applications. The sealing section is made up of a resilient “Omega” shaped steel strip and a soft sealing filler material garnering an excellent sealing.

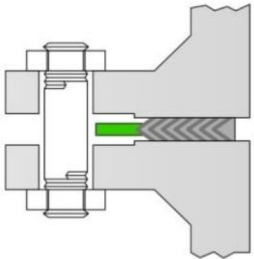
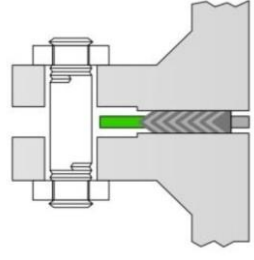
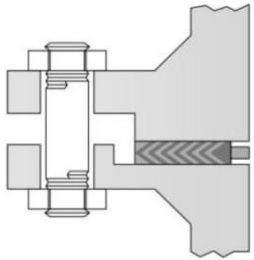
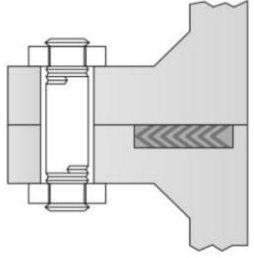
By altering the tension, number and thickness of the windings, an infinite number of stress values can be produced ensuring a constant gasket stress at all times.

In-built resilience these gaskets are capable of excellent seal over a wide range of flange surface finish.

The combination of materials allows the gasket to seal under fluctuating temperature and pressure conditions.

These gaskets are proven to be most reliable for use in difficult, critical and arduous duties.

These gaskets don't adhere to the flange face like cut gaskets and hence reduces expensive cleaning downtime.

<p><b>Style SG</b>          The standard gasket choice for RF &amp; FF flanges with the Outer Guide Ring and Sealing Element.          The outer ring centers the gasket within the bolt holes of the flange, provides additional radial strength to prevent gasket blow-out and acts as an over compression stop of the sealing elements.</p>	
<p><b>Style SGIR</b>          The standard gasket with an Inner Ring fitted to Style CG, providing additional compression stop that protects the sealing element from heat and corrosion. It fills the annular space between the flange bore and the inside diameter.          Designed to prevent accumulation of solids, reduce turbulent flow of process fluids and minimizes erosion of flange faces.          Inner rings are recommended on all gaskets NPS24" class 900#, NPS12" and above in 1500# and NPS4" and above in class 2500#. All Spiral Wound Gaskets with PTFE filler material have inner rings.          Inner ring material usually matches the winding material and is compatible with fluid/media to be handled.</p>	
<p><b>Style RI</b>          The gasket is fitted with an inner ring but without outer ring.</p>	
<p><b>Style R</b>          The gasket is just a sealing element</p>	



## COLOR CODING AND ABBREVIATIONS FOR GASKET MATERIALS

MATERIAL	ABBREVIATION	COLOR CODE
METALLIC WINDING MATERIALS		
Carbon steel	CRS	Silver
304 SS	304	Yellow
304 L SS	304 L	No color
309 SS	309	No color
316 L SS	316 L	Green
347 SS	347	Blue
321 SS	321	Turquoise
Monel 400	MON	Orange
Nickel 200	NI	Red
Titanium	TI	Purple
Hastelloy B	HAST B	Brown
Hastelloy C	HAST C	Beige

MATERIAL	ABBREVIATION	COLOR CODE
METALLIC WINDING MATERIALS		
Inconel 600	INC 600	Gold
Inconel 625	INC 625	Gold
Incoloy 800	IN 800	White
Incoloy 825	IN 825	White

MATERIAL	ABBREVIATION	COLOR CODE
NONMETALLIC FILLER MATERIALS		
Poly tetra fluoro ethylene	PTFE	White stripe
Mica-graphite	Manufacturer's designation	Pink stripe
Flexible graphite	F.G.	Gray stripe
Ceramic	CER	Light green stripe

## FILLER MATERIAL SELECTION

MATERIAL	TEMPERATURE (°C)		MAX. OPERATING PRESSURE [BAR]	GAS TIGHTNESS	APPLICATION
	MIN.	MAX.			
Graphite	-200	500	250	Good	Aggressive media
PTFE	-200	240	100	Good	Aggressive media

## MATERIALS CHART

\*10mm steel ball indenter with 3000kg load

MATERIAL [TRADE NAME]	DIN SPECIFICATION	DIN MATERIAL NR.	AISI UNS	B.S ASTM	HARDNESS HV 10*	TEMP. [C] MIN. MAX.	VOLUMETRIC MASS [G/CM <sup>3</sup> ]
Soft Iron (Armco)	-	1.1003	-	-	90 - 100	-60 500	7.85
Steel (LCS)	RSt.37.2	1.0038	-	-	100 - 130	-40 500	7.85
Stainless Steel 304	X5CrNi18	1.4301	304	304S15/16/31	130 - 180	-250 550	7.9
Stainless Steel 304 L	X2CrNi189	1.4306	304L	304S11	130 - 190	-250 550	7.9
Stainless Steel 309	X15CrNiMo2012	1.4828	309	309S24	130 - 190	-100 1000	7.9
Stainless Steel 316	X5CrNiMo1810	1.4401	316	316S31/33	130 - 180	-100 550	7.9
Stainless Steel 316 L	X2CrNiMo1810	1.4404	316L	316S11/13	130 - 190	-100 550	7.9
Stainless Steel 316 Ti	X10CrNiMoTi1810	1.4571	316Ti	320S31	130 - 190	-100 550	7.8
Stainless Steel 321	X10CrNiTi189	1.4541	321	321S12/19/87	130 - 190	-250 550	7.9
Stainless Steel 347	X10CrNiNb189	1.4550	347	347S31	130 - 190	-250 550	7.9
Nickel 200	Ni99.2	2.4066	N02200	3072-76 NA11	90 - 120	-250 600	8.9
Monel 400	NiCu30 Fe	2.4360	N04400	3072-76 NA13	110 - 150	-125 600	8.8
Inconel 600	NiCr15 Fe	2.4816	N06600	3072-76 NA14	120 - 180	-100 950	8.4
Incoloy 800	X10NiCrAlTi3220	1.4876	N08800	3072-76 NA15	140 - 220	-100 850	8.4
Incoloy 825	NiCr21 Mo	2.4858	N08825	3072-76 NA16	120 - 180	-100 450	8.14
Hastelloy B2	NiMo28	2.4617	N10665	-	170 - 230	-200 450	9.2
Hastelloy C276	NiMo16Cr15W	2.4819	N10276	-	170 - 230	-200 450	8.9
Titanium	Ti99.8	3.7025	-	-	110 - 140	-250 500	4.5