

# POWER<sup>®</sup>gasket SWG - Spiral wound gaskets

Product name:	<b>POWER<sup>®</sup>gasket SWG - Spiral wound gaskets</b>	Material data sheet No.:	<b>D - 0017-0-EN</b>	Date:	15.08.2013
		Revision Date:		Page:	1 / 4

Gaskets are made of soft layers of expanded graphite, PTFE, ceramic or mica inserted in the steel spiral and steel rings - see various types. Ceramic or mica is designated for extremely high temperatures, it is suitable to combine with graphite, zone gasket:

- High blow out resistance - up to **320 bar**.
- Inner ring protects sealing material against overheating (-200 °C to 1000 °C) and reduces medium turbulence in pipeline.
- Outer ring centralizes the gasket within flange, prevents gasket damage by tightening and enhances its blow-out resistance.
- Basic types are in accordance with DIN, BS, API and ANSI Standards.

The material meets the requirements of the ČSN CLC TR 60079-32-1 standard, chapter 7.7.2.1. for conductive pipe category (resistance <1kΩ / m) - Protocol No 020654-01/02.

### Application and benefits

The gaskets are particularly suited for flange joints with fluctuating pressures and temperatures, and can withstand temperatures up to 1000 °C depending on the material used.

- Can be used in wide pressure and temperature ranges.
- Easy to install due to its construction.
- SWG-IOR eliminates installation errors.
- Easy to remove at dismantling due to non-stick surface.
- Do not damage the surface of flanges.

### Safety stock

We keep safety stock of spiral wound gaskets POWERgasket SWG-IOR of the following dimensions and materials for the immediate dispatch.

DIN: DN 15 - 400, PN 10 - 320.

ASME B 16.20: 1/2" - 16", 150 - 600 Lbs.

Material: 316L/316L + graphite/carbon steel.

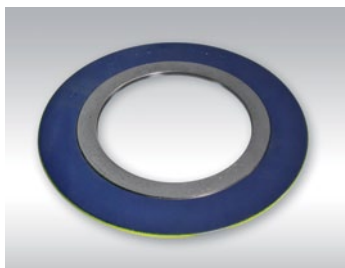
**POWER<sup>®</sup>gasket SWG**  
Without Rings



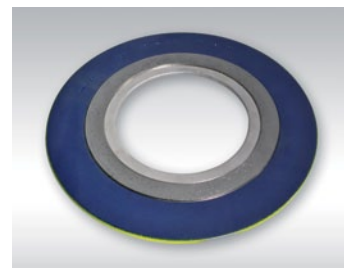
**POWER<sup>®</sup>gasket SWG-IR**  
With inner Ring



**POWER<sup>®</sup>gasket SWG-OR**  
With outer Ring



**POWER<sup>®</sup>gasket SWG-IOR**  
With inner and outer Rings



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## Available Alloys for spiral wound gaskets

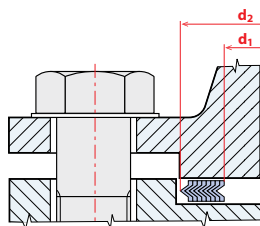
Material (Trade Name)	DIN specification	DIN Number	ANSI	Hardness HB/HV	Temperature °C min.	Temperature °C max.	Density* (g/cm <sup>3</sup> )
Iron (LCS)	RSt. 37.2	1.0038	-	100-130	-40	500	7,85
Stainless steel 304	X5 CrNi 18	1.4301	304	130-180	-250	550	7,90
Stainless steel 304 L	X3 CrNi 189	1.4306	304L	130-190	-250	550	7,90
Stainless steel 309	X15 CrNiSi 2012	1.4828	309	130-190	-100	1000	7,90
Stainless steel 316	X5 CrNiMo 1810	1.4401	316	130-190	-100	550	7,90
Stainless steel 316 L	X2 CrNiMo 1810	1.4404	316L	130-190	-100	550	7,90
Stainless steel 316 Ti	X10 CrNiMoTi 1810	1.4571	316Ti	130-190	-100	550	7,90
Stainless steel 321	X10 CrNiTi 189	1.4541	321	130-190	-250	550	7,90
Stainless steel 347	X10 CrNiNb 189	1.4550	347	130-190	-250	550	7,90
Monel 400	NiCu 30 Fe	2.4360	N04400	110-150	-125	600	8,80
Inconel 600	NiCr 15 Fe	2.4816	N06600	120-180	-100	600	8,40
Incoloy 800	X10NiCrAlTi 3220	1.4876	N08800	140-220	-100	850	8,00
Incoloy 825	NiCr 21 Mo	2.4858	N08825	120-180	-100	450	8,14
Hastelloy B2	NiMo 28	2.4615	NI 0665	170-230	-200	450	9,20
Hastelloy C276	NiMo 16Cr 15W	2.4819	NI 0276	170-230	-200	450	8,90
Titan	Ti 99,8	3.7025	-	110-140	-250	350	4,50

## Fillers

Material	Temperature range °C		Working pressure MPa max.	Colour of stripes
	min.	max.		
Graphite	-200	650 (Steam)	20	gray
PTFE	-200	250	10	white
MICA	-	1000	0,5 - 5 bar	-

DATA SHEET

### Type SWG Male/female flanges



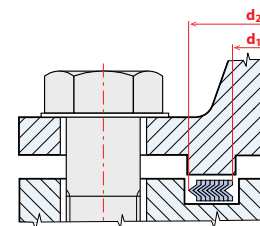
#### DIN 2692 PN 10-100

DN	d1	d2
10	18	34
15	22	39
20	28	50
25	35	57
32	43	65
40	49	75
50	61	87
65	77	109
80	90	120
100	115	149
125	141	175
150	169	203
175	195	233
200	220	259
250	274	312
300	325	363
350	368	421
400	420	473
500	520	575
600	620	675
700	720	777
800	820	882
900	920	987
1000	1020	1091

#### ASME/ANSI B 16.21 150 - 1500 lbs

DN (in.)	úzké		široké	
	d1	d2	d1	d2
1/2		18	21	35
3/4		24	27	43
1		30	33	51
1 1/4		38	42	64
1 1/2		44	48	73
2		57	60	92
2 1/2		68	73	105
3		84	89	127
3 1/2		97	102	140
4	Podle specifikace	110	114	157
5		137	141	186
6		162	168	216
8		213	219	270
10		267	273	324
12		318	324	381
14		349	356	413
16		400	406	470
18		451	457	535
20		502	510	585
24		603	610	690

### Type SWG Tongue/groove flanges



#### DIN 2691 PN 10-160

DN	d1	d2
4-6	20	30
8	22	32
10	24	34
15	29	39
20	36	50
25	43	57
32	51	65
40	61	75
50	73	87
65	95	109
80	106	120
100	129	149
125	155	175
150	183	203
175	213	233
200	239	259
250	292	312
300	343	363
350	395	421
400	447	473
500	549	575
600	649	675
700	751	777
800	856	882
900	961	987
1000	1062	1082

#### ASME/ANSI B 16.21 150 - 1500 lbs

DN (in.)	úzké			široké		
	d1	d2	d2	d1	d2	d2
1/2	25	35	35			
3/4	33	43	43			
1	38	48	51			
1 1/4	48	57	64			
1 1/2	54	64	73			
2	73	83	92			
2 1/2	86	95	105			
3	108	118	127			
3 1/2	121	130	140			
4	132	145	157			
5	160	173	186			
6	190	203	216			
8	238	254	270			
10	286	305	324			
12	343	362	381			
14	375	394	413			
16	425	448	470			
18	489	511	535			
20	535	559	585			
22	591	616	641			
24	640	667	690			

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