

**Kammprofile Gasket Style No: TMK**

**Kammprofile Gasket** is a composite gasket, which utilises a serrated metal core with a soft facing material. The metal core is a machined on each contact face with concentric serrations which provide high pressure areas, ensuring that the soft coating flows into any imperfections in the flange even at relatively low bolt loads. The result is a gasket, which combines the benefits of soft, cut materials with the advantages of seal integrity associated with metallic gaskets.

Facing Material	Maximum Temperature
Graphite	550°C
PTFE	260°C
Mica	1000°C

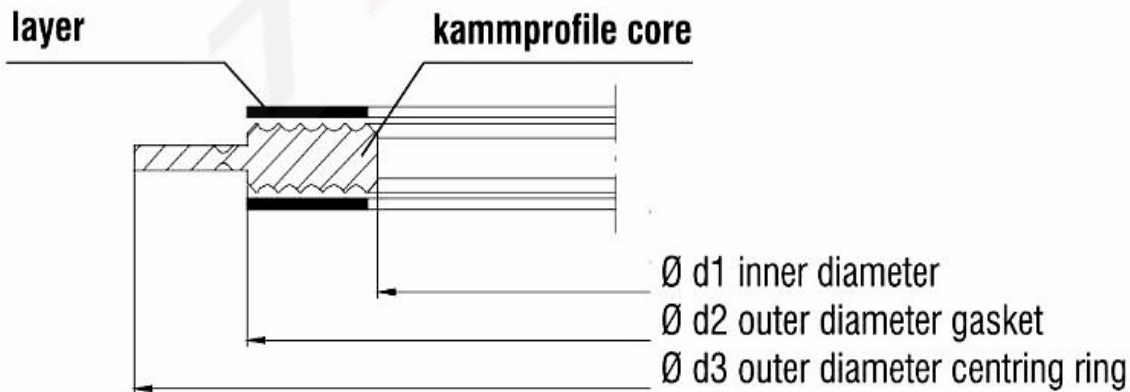
Kammrprofile gaskets can also be manufactured from a range of core materials according to media compatibility and temperature considerations.



Core Material	Maximum Temperature
Stainless Steel 316L	550°C
Stainless Steel 304	550°C
Monel 400	600°C
Nickel 200	600°C
Inconel 600	900°C
Inconel 625	450°C
Incoloy 825	450°C
Hastelloy B-2	450°C
Hastelloy C-276	450°C
Titanium	350°C

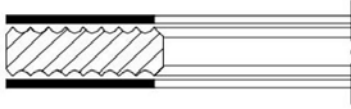
Expanded graphite is the most common facing material used for Kammprofile gaskets. However, other materials can be used, such as PTFE for chemically aggressive duties or mica for high temperature duties.

**Construction:**



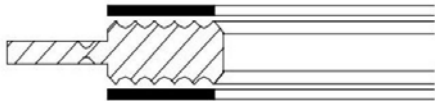
**Typical Style:**

Kammprofile without centring edge for tongue and groove



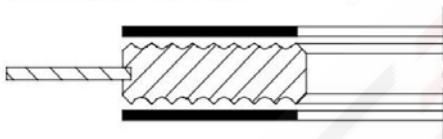
**TMK-A**

Kammprofile with cranked centring ring and predetermined breaking point



**TMK-B**

Kammprofile with lose centering ring, thickness 1.5 mm



**TMK-C**

**General Properties of Kammprofile gasket:**

1. Have a wide range of seating stresses under which the seal is effected and maintained.
2. Can be used when there is insufficient bolt load to seal conventional gasket materials.
3. Easy to handle and fit.
4. Suitable for a wide range of operating conditions.
5. The soft facing layer prevents damage to the flange.
6. Provide a high integrity seal including thermocycling and shock loading conditions
7. Sealing is not sensitive to uneven bolt loading conditions
8. Can be refurbished with a new facing layer and reused

**Applications of Kammprofile Gaskets:**

1. Heat Exchanger and Vessel applications
2. High and low temperatures
3. Pressures of up to 250 bar
4. Low bolt loads
5. Small flange widths
6. Damaged flanges

**Inquiry / Order example**

Size	Pressure	Material	Qty
2"	300#	4.0mm TK SS316L core	100pcs
DN50	PN40	with Loose Guide Ring.	100pcs
		0.5mm TK Graphite Layer	

**Dimensions for Kammprofile per EN 12560-6 to Suit ASME B16.5 Flange**

Nominal Pipe Size (NPS)	Core Inside Diameter (ID)	Core Outside Diameter (OD)	Guide Ring Outside Diameter (OD)						
			Class 150	Class 300	Class 400	Class 600	Class 900	Class 1500	Class 2500
			mm	mm	mm	mm	mm	mm	mm
1/2"	23	33.3	44.4	50.8	50.8	50.8	60.3	60.3	66.7
3/4"	28.6	39.7	53.9	63.5	63.5	63.5	66.7	66.7	73
1	36.5	47.6	63.5	69.8	69.8	69.8	76.2	76.2	82.5
1 1/4	44.4	60.3	73	79.4	79.4	79.4	85.7	85.7	101.6
1 1/2	52.4	69.8	82.5	92.1	92.1	92.1	95.2	95.2	114.3
2	69.8	88.9	101.6	108	108	108	139.7	139.7	142.8
2 1/2	82.5	101.6	120.6	127	127	127	161.9	161.9	165.1
3	98.4	123.8	133.4	146.1	146.1	146.1	165.1	171.5	193.7
3 1/2	111.1	136.5	158.8	161.9	158.7	158.7	-	-	-
4	123.8	154	171.5	177.8	174.6	190.5	203.2	206.4	231.7
5	150.8	182.6	193.7	212.7	209.5	238.1	244.5	250.8	276.2
6	177.8	212.7	219.1	247.7	244.5	263.5	285.8	279.4	314.3
8	228.6	266.7	276.2	304.8	301.6	317.5	355.6	249.3	384.1
10	282.6	320.7	336.5	358.8	355.6	396.9	431.8	431.8	473
12	339.7	377.8	406.4	419.1	415.9	454	495.3	517.5	546.1
14	371.5	409.6	447.7	482.6	479.4	488.9	517.5	574.7	-
16	422.3	466.7	511.2	536.6	533.4	561.9	571.5	638.1	-
18	479.4	530.2	546.1	593.7	590.5	609.6	635	701.7	-
20	530.2	581	603.2	650.9	644.5	679.5	695.3	752.4	-
22	581	631.8	657.2	701.7	698.5	730.3	-	-	-
24	631.8	682.6	714.4	771.5	765.2	787.4	835	898.5	-

**Kammprofile Tolerances per EN 12560-6 Specification:**

- Core inside diameter for NPS ½ to 24 is +1/64", - 0" (+0.4 mm, - 0 mm)
- Core outside diameter for NPS ½ to 24 is +0", -1/64" (+0 mm, - 0.4 mm)
- Guide ring outside diameter for NPS ½ to 24 is ±1/32" (±0.8 mm)

**Dimensions for Kammprofile per EN 1514 -6 to Suit Type A and B Flanges Facings**

DN	Core Inside Diameter (ID)	Core Outside Diameter (OD)			Guide Ring Outside Diameter (OD)									
		PN 10/40	PN 64/160	PN 250/400	PN 10	PN 16	PN 25	PN 40	PN 64	PN 100	PN 160	PN 250	PN 320	PN 400
mm	mm	mm			mm									
10	22	36	36	36	46	46	46	46	56	56	56	67	67	67
15	26	42	42	42	51	51	51	51	61	61	61	72	72	--
20	31	47	47	47	61	61	61	61	--	--	--	--	--	--
25	36	52	52	52	71	71	71	71	82	82	82	83	92	104
32	46	66	62	66	82	82	82	82	--	--	--	--	--	--
40	53	73	69	73	92	92	92	92	103	103	103	109	119	135
50	65	87	81	87	107	107	107	107	113	119	119	124	134	150
65	81	103	100	103	127	127	127	127	137	143	143	153	170	192
80	95	121	115	121	142	142	142	142	148	154	154	170	190	207
100	118	146	138	146	162	162	168	168	174	180	180	202	229	256
125	142	178	162	178	192	192	194	194	210	217	217	242	274	301
150	170	212	190	212	217	217	224	224	247	257	257	284	311	348
175	195	245	215	245	247	247	254	265	277	287	284	316	358	402
200	220	240	248	280	272	272	284	290	309	324	324	358	398	442
250	270	290	300	340	327	328	340	352	364	391	388	442	488	-
300	320	340	356	400	377	383	400	417	424	458	458	536	-	-
350	375	395	415	-	437	443	457	474	486	512	-	-	-	-
400	426	450	474	-	489	495	514	546	543	572	-	-	-	-
450	480	506	-	-	539	555	-	571	-	-	-	-	-	-
500	530	560	588	-	594	617	624	628	657	704	-	-	-	-
600	630	664	700	-	695	734	731	747	764	813	-	-	-	-
700	730	770	812	-	810	804	833	852	879	950	-	-	-	-
800	830	876	886	-	917	911	942	974	988	-	-	-	-	-
900	930	982	994	-	1017	1011	1042	1084	1108	-	-	-	-	-
1000	1040	1098	1110	-	1124	1128	1154	1194	1220	-	-	-	-	-
1200	1250	1320	1334	-	1341	1342	1364	1398	1452	-	-	-	-	-
1400	1440	1522	-	-	1548	1542	1578	1618	-	-	-	-	-	-
1600	1650	172	-	-	1772	1764	1798	1830	-	-	-	-	-	-
1800	1850	1914	-	-	1972	1964	2000	-	-	-	-	-	-	-
2000	2050	2120	-	-	2182	2168	2230	-	-	-	-	-	-	-
2200	2250	2328	-	-	2384	2378	-	-	-	-	-	-	-	-
2400	2460	2512	-	-	2594	-	-	-	-	-	-	-	-	-
2600	2670	2728	-	-	2794	-	-	-	-	-	-	-	-	-
2800	2890	2952	-	-	3014	-	-	-	-	-	-	-	-	-
3000	3100	3166	-	-	3228	-	-	-	-	-	-	-	-	-

**Kammprofile Tolerances per EN 1514-6 Specification:**

- Core inside diameter for DN 10 through DN 1000 is +1/64", - 0" (+0.4 mm, - 0 mm)
- Core outside diameter for DN 10 through DN 1000 is +0", -1/64" (+0 mm, - 0.4 mm)
- Core inside diameter for DN 1000 and larger is +3/64", -0" (+1.0 mm, - 0 mm)
- Core outside diameter for DN 1000 and larger is +0", -3/64" (+0 mm, - 1.0mm)
- Guide ring outside diameter is ±1/32" (±0.8 mm)