



Manufacturers of Metal Gaskets



TECHNICAL DATA SHEET

LEADER CAM Camprofile Gaskets

LEADER CAM camprofile gaskets are offered as a high quality sealing alternative. Their application is for difficult sealing environments where performance is critical or where sealing stresses are low. **LEADER CAM** gaskets consist of a metal core with concentric grooves and normally have sealing layers of either flexible graphite or PTFE. Gaskets can be applied without sealing covers, but there is the risk of flange damage at high seating loads. Metal cores are usually selected based on the metallurgy of the piping system and can be relaminated with new covers (sealing layers) to give virtually endless uses. This can be most interesting in applications using expensive alloys. The following presents the two types of profiles available.

LG-411 This profile is grooved and has covers from the ID to the OD. It's uses are similar to the spiral wound gasket profile LG-11. It is designed for tongue and groove and male/female flanges.

LG-413 This profile has a section that performs as a guide ring in a LG-13 spiral wound gasket. It is designed for raised and flat faced flanges. The OD normally extend to the surface of the bolts. LG-413 can be manufactured as one piece construction or with loose center ring.

Profile	Cross Section
LG-411	
LG-413	

Advantages of the LEADER CAM Gasket

- Excellent sealing characteristics at the wide range of seating stresses
- Helps compensate for wide swings of temperature and pressure
- Very forgiving of inconsistent bolt torquing or installation error

- Applicable to almost all types of flanges regardless of available bolt loads
- The working thickness of sealing layers is extremely small reducing fugitive emissions
- Low seating stresses reduce flange damage and gasket removal problems
- The gasket cores are reusable reducing cost and eliminating gasket proposal problems
- Extreme temperature and chemical resistance due to variety of materials available

Available Covers

Graphite Graphite covers are the most common type for camprofile gaskets. They can be used in almost all applications and temperatures save certain fuming acids. Leader Gasket uses only quality graphite from the market leaders in the United States and Europe.

PTFE PTFE covers are used in applications where graphite is not acceptable. It is common with acids and other corrosive mediums.

Typically, the covers for camprofile gaskets are 0.5 mm and 1.0 mm for the larger type.

Available Alloys

Leader Gasket offers camprofile gaskets made from

AISI	DIN
304	1.4301
316L	1.4404
316Ti	1.4571
321	1.4541
304L	1.4306
Alloy 20	C
Carbon Steel	St 37
Hastelloy C276	2.4819
Inconel 600	2.4816
Monel 400	2.4360
Incoloy 800	1.4876
Incoloy 825	2.4858
Titanium	3.7025

the common alloys. The table below presents the alloy available (in both ANSI and DIN nomenclature).

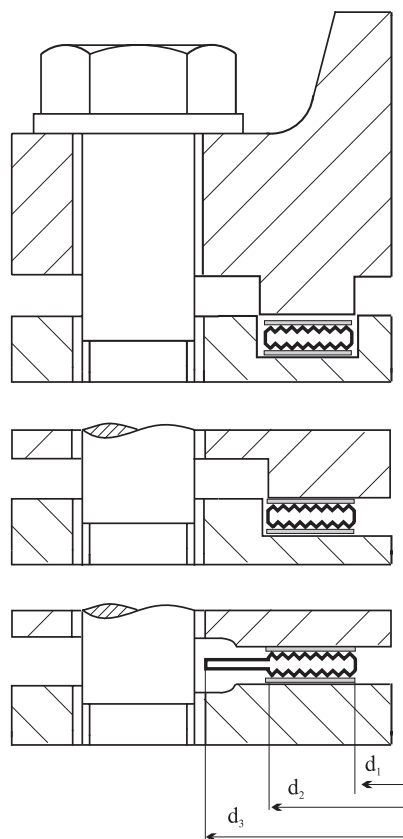
Ordering information

In addition to dimensions, the following information is required when placing an order for **LEADER CAM** cam-profile gasket.

- 1) Profile type (A or B)
- 2) Steel material for the core (1.4541, etc.)
- 3) Type of covers (graphite or PTFE)
- 4) Thickness of the core
- 5) Thickness of the covers
- 6) Size (either standard or special) or dimensions
- 7) One piece construction or loose center ring

Dimensions in mm and (and degrees for r)

	a	b	c	d	r
Type A	0.50	1.00	0.10	0.3	90
Type B	0.75	1.50	0.10	0.3	90



Material Data Tables

This section presents material data tables that are useful in selecting and evaluation materials for gasket construction. Below is a cross reference and physical properties for metals that can be utilized in Camprofile gaskets.

Metals

Material (Trade Name)	DIN specification	DIN Number	AISI	Hardness HB/HV	Temp. Cel.		Volumetric mass (g/mc3)
					min.	max.	
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	X5 CrNi 1810	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 17122	1.4401	316	130 - 190	-100	550	7.90
Stainless Steel 316 L	x2 CrNiMo 17132	1.4404	316L	130 - 190	-100	550	7.90
Stainless Steel 316 Ti	X10 CrNiMoTi 17122	1.4571	316Ti	130 - 190	-100	550	7.90
Stainless Steel 321	X6 CrNiTi 1810	1.4541	321	130 - 190	-250	550	7.90
Stainless Steel 347	X6 CrNiNb 1810	1.4550	347	130 - 190	-250	550	7.90
Monel 400	NiCu 30 Fe	2.4360	NO4400	110 - 150	-125	600	8.80
Inconel 600	NiCr 15 Fe	2.4816	NO6600	120 - 180	-100	600	8.40
Incoloy 800	X10NiCrAlTi 3220	1.4876	NO8800	140 - 220	-100	850	8.00
Incoloy 825	NiCr 21 Mo	2.4858	NO8825	120 - 180	-100	450	8.14
Hastelloy C276	NiMo 16Cr15W	2.4819	N10276	170 - 230	-200	450	8.90
Titanium	Ti 99,8	3.7025	-	110 - 140	-250	350	4.50

Fillers

Material	Temperature range		Operating pressure
	min.	max.	Mpa max.
Graphite	- 200	550	20
PTFE	-200	250	10
MICA	—	1000	0,5 - 5 bar

Due to the wide variety of possible installation and operating conditions, producer cannot draw a final conclusion for the gasket use in all installations/applications and therefore the data can not be used for the warranty claims. Please, do not hesitate to contact our staff to find the best solution for your application.