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# Sealux - Kammprofile Gasket

**An innovation in metal sealing technology, the Kammprofile gasket consists of a machined metal core featuring concentric grooves and, where applicable, a coating of PTFE, graphite, silver, or aluminum. The kammprofile gasket offers several advantages, including effective sealing at low tightening stress: minimum 20 N/mm² (spiral wound gasket: minimum 50 N/mm²), easy and forgiving installation and handling, and high resistance to temperature and pressure fluctuations.**

**Like spiral wound gaskets, kammprofile gaskets are suitable for applications involving high temperatures and high pressures (> 1000°C; 345 bar).**

**Kammprofile gaskets are mainly used in heat exchangers and steam generators. They are also used in the chemical and petrochemical industries.**

## Profile

**The standard thickness of a kammprofile gasket is 3 mm. The standard grooves are 0.5 mm deep, with a pitch of 1 mm between each groove. There are two main profile types: parallel or convex.**

**Kammprofile gaskets can be manufactured in sizes ranging from a few millimeters up to 4 meters in diameter.**

**The coating (PTFE, graphite, etc.) prevents damage to the flange that could be caused by the metal grooves. Its primary purpose, however, is to ensure sealing performance even at low pressure.**

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- **Several profiles are available :**

- **SEALUX-K7P** 

**A kammprofile gasket without a centering ring, the SEALUX-K7P is used for double tongue-and-groove flanges.**

- **SEALUX-K9P** 

**A kammprofile gasket with an outer ring, the SEALUX-K9P is used for flat-face or raised-face flanges.**

- **SEALUX-K15P** 

**A kammprofile gasket with a floating outer ring, the SEALUX-K15P is used for gas applications or when there is a large temperature difference between the inner and outer diameters.**

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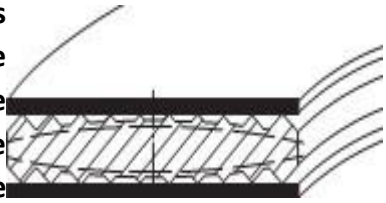
## Convex Kammprofile Gasket

**The convex shape of this type of kammprofile gasket provides better sealing performance than a parallel kammprofile gasket. This improvement is due to the groove depth: the grooves become progressively shallower as they approach the center of the profile. As a result, the pressure is higher at the center of the profile, allowing the coating layer to properly conform to the inevitable irregularities of the flanges. As with the parallel kammprofile gasket, the convex kammprofile gasket can be manufactured with either a fixed or a floating outer ring.**



## Composition of a SEALUX K7P

**Metal Kammprofile Core**

**Available in thicknesses of 2, 3, 4, or 5 mm for large dimensions (> 1.5 m), the metal core is generally manufactured from stainless steel (SS316, SS304, etc.), carbon steel, or alloy materials (Duplex, Inconel, etc.).**

**Coating**

**Most commonly made of graphite, the coating can also be made of PTFE, mica, etc., when operating conditions require it. The standard coating thickness is 0.5 mm for graphite and 0.35 mm for PTFE.**

**It is also possible to supply uncoated kammprofile gaskets. In this case, the core is generally made from a softer metal, such as carbon steel. However, this is not recommended.**

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**Summary of Technical Data for the Most Common Coatings**

| Coating | Temperature | | Max Pressure (bar) |
|---|---|---|---|
| | Min | Max | |
| Graphite | -240°C | 450°C | 345 |
| PTFE | -240°C | 260°C | 100 |
| mica | -50°C | 1000°C | 50 |

| Coating | 'm' factor | 'y' factor (psi) |
|---|---|---|
| Graphite | 2 | 2500 |
| PTFE | 2 | 2500 |
| Mica | 4 | 5900 |