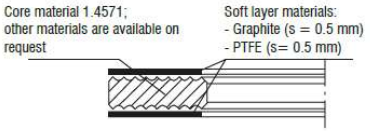
Kammprofile gasket for use in tongue and groove flange systems

The high-grade kammprofile stainless steel core (standard: WS 1.4571, kammprofile pitch 1 mm) is covered on either side with soft layer, usually Graphite or PTFE. Thin gaskets can be made for use in tongue and groove connections where groove depth is low.

Kammprofile gaskets require low minimum seating stress but can be applied under very high stress load.

Kammprofile gaskets can be operated up to high pressures, have low leakage rates and can be applied in even the most adverse operating conditions.

Construction



Can be supplied from 2 mm overall thickness

Designed as per DIN EN 1514-6 (Type NR)
DIN EN 12560-6 (Type NR)

Operating limits

	Graphite	PTFE
■ Operating pressure :	max. 400 bar	max. 400 bar
■ Operating temperature :	-200 °C to +550 °C [1]	-200 °C to +250 °C

[1] please consult the manufacturer regarding temperatures above 450°C

Gasket characteristics DIN 28090

	Graphite	PTFE
$\sigma_{VU\ 0,1}$:	15 N/mm²	15 N/mm²
σ_{VO} :	500 N/mm²	500 N/mm²
$\sigma_{BO\ 200°C}$:		450 N/mm²
$\sigma_{BO\ 300°C}$:	420 N/mm²	
$m_{DIN\ 2505}$:	1.1	1.1

Approvals

- Blow-out safety Hot Blow-Out Test as per ASTM draft HOBT1 (Graphite)
- BAM approval for gaseous oxygen (70°C/100 bar) and liquid oxygen (PTFE) [2]
- BAM approval for gaseous oxygen (200°C/130 bar) and liquid oxygen (Graphite)
- Fire Safe test as per API 607/DIN ISO 10497 (Graphite)
- TA-Luft 2002 (VDI 2440/2200) [3]

[2] BAM: Federal German Institute for Materials Research and Testing
[3] TA-Luft: German Technical Instructions on Air Quality Control