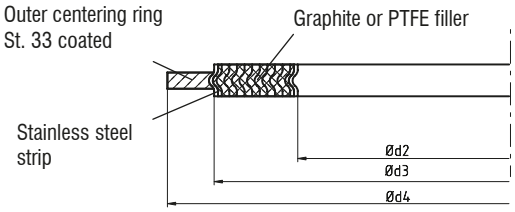
Spiral-wound gasket with graphite or PTFE filler and outer ring (IDT Style: SD20)

The spiral-wound gasket comprises a spiral-wound, beaded metal strip (Standard: 1.4541/ ASTM 321; other materials are also available). A soft filler (graphite or PTFE) is placed between the metal strip, jutting out on both sides of it. The outer support ring stabilizes the spiral winding and takes on the centering on the flange bolts.

The gasket can be used in flat face and raised face flanges, mostly for problematic applications and under extreme conditions. One main area of application is the petro-chemical industry.

Dimensions as per DIN EN 1514-2 Form C/O, DIN EN 12560-2 Form C/O, ASME B16.20 and special-purpose dimensions.

Construction



Special-purpose dimensions and other material combinations are available on request

Operating limits

	Graphite	PTFE
■ Operating pressure :	max. 320 bar	max. 320 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
σ_{VU} :	50 N/mm²	45 N/mm²
σ_{VO} :	150 N/mm²	150 N/mm²
$\sigma_{BO\ 200°C}$:		130 N/mm²
$\sigma_{BO\ 300°C}$:	120 N/mm²	
$m_{DIN\ 2505}$:	1.4	1.2

Approvals

- ■ BAM approval for gaseous oxygen (200°C/130 bar) and liquid oxygen (Graphite) [2)]
- ■ BAM approval for ethylene oxide/propylene oxide (Graphite)
- ■ FDA compliant (PTFE)
- ■ Fire Safe Test as per API 607 (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

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