

# SPIRAL WOUND GASKET WITH INNER AND OUTER RING, MATERIAL: 1.4541/GRAPHITE/CARBON STEEL

6416SD10

The Spiral Wound Gasket consists of a spirally wound, beaded metal strip made from stainless steel 1.4541. A graphite soft material strip [purity 99,85%C] protruding on both sides is inserted between the individual windings.



The inner and outer support ring [inner ring: 1.4541, outer ring: carbon steel, corrosion protected] stabilize the spiral, while the outer ring also ensures the centering between the flange bolts.

Spiral Wound Gaskets are particularly suitable for applications with high operating pressures and critical operating conditions [e.g. alternating loads].

Material combinations other than shown here are available on request.

## Operating data

Temperatur	450 °C
Temperatur [min]	-269 °C
Temperatur [max]	550 °C
Pressure [max]	320 bar

## Gasket characteristics EN 13555

Gasket Characteristics [IDT]

[https://atropim.idt-gaskets.com/upload/files/06lsx/xjzn3/8tonu/3itw6/ned8w/1tlig/SD10-WS 1.4541 - Grafit HC - CS - 4,5 mm\\_Rev00.pdf](https://atropim.idt-gaskets.com/upload/files/06lsx/xjzn3/8tonu/3itw6/ned8w/1tlig/SD10-WS 1.4541 - Grafit HC - CS - 4,5 mm_Rev00.pdf)

## Gasket characteristics DIN 2505 V

$K_0 \times K_d$ [N/mm]	$30 \times b_d$
$k_1$ [mm]	$1,4 \times b_d$

## Gasket characteristics DIN 28090

$\sigma_{V0}$ [N/mm <sup>2</sup> ]	300
$\sigma_{VU 0,1}$ [N/mm <sup>2</sup> ]	30
$m$ [DIN 28090]	1.4
$\sigma_{B0 300 °C}$ [N/mm <sup>2</sup> ]	220

This datasheet on the internet: <https://idt-gaskets.com/products/gaskets/649c1c48ab08edb34>

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## Gasket characteristics ASME

m [ASME]	3
Y [PSI]	4400

## Approvals and test reports

TA Luft 2002 [VDI 24A0/2200]

DIN EN13555 [TA Luft 2021]

Fire Safe Test

Blow-out resistance

BAM oxygen

BAM oxygen [liquid]

Gas [DIN 3535-6]

WRAS

Drinking water certificate HY

## Flange shapes

Self-centering, Raised Face [form IBC]