

LE-SAFE ADHESIVE-FREE CORRUGATED METALLIC GASKET WITH TWO-SIDED GRAPHITE LAYER AND INNER EYELET

8061WD20

The gasket comprises a corrugated stainless steel core [1.4404] covered with graphite layer on either side using the adhesive-free LE-SAFE technology and a stainless steel inner eyelet [1.4404]. The inner eyelet prevents the graphite layer from impacting the flow medium.



LE-SAFE corrugated gaskets impress by a very high pressure application limit, low leakage rate and are therefore suitable for extreme operation conditions [e.g. cryogenic, oxygen, hydrogen].

To ensure the safety in oxygen applications, a batch-related test report from the Bundesanstalt für Materialforschung und -prüfung [BAM] is optionally available.

BAM [Bundesanstalt für Materialforschung und -prüfung] holds a critical view and does not recommend using, zircon or zircon alloys, titanium and titanium alloys or alloys containing titanium [e.g. stainless steels 1.4541, 1.4571] or metallic materials containing more than 2.5% aluminum for applications involving oxygen. However, the stainless steel 1.4404 used in all LE-SAFE products as a standard material is suitable for this [other suitable metallic materials are available on request - e.g. 1.4828, Hastelloy etc.]

Operating data

Temperatur	450 °C
Temperatur [min]	-269 °C
Temperatur [max]	550 °C
Pressure [max]	180 bar

Gasket characteristics EN 13555

Gasket Characteristics [IDT]

<https://atropim.idt-gaskets.com/upload/files/06lsx/xjzn3/8tonu/3itw6/ned8w/8d36c/WD20-WS 1.4404 - 3803 IB-LE-Safe - 3,0 mm -Rev01-H2.pdf>

Gasket characteristics DIN 2505 V

$K_0 \times K_d$ [N/mm]	$12 \times b_d$
k1 [mm]	$1,1 \times b_d$

This datasheet on the internet: <https://idt-gaskets.com/products/gaskets/64da255f634f53e74>

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Gasket characteristics DIN 28090

σ_{V0} [N/mm ²]	230
$\sigma_{VU 0,1}$ [N/mm ²]	12
m [DIN 28090]	1.1
$\sigma_{B0 300\text{ °C}}$ [N/mm ²]	200

Gasket characteristics ASME

m [ASME]	2.5
Y [PSI]	2000

Approvals and test reports

TA Luft 2002 [VDI 24A0/2200]

DIN 30691 [lightning current carrying capacity]

DIN EN13555 [TA Luft 2021]

Blow-out resistance

BAM oxygen

BAM oxygen [liquid]

Gas [DIN 3535-6]

WRAS

EG 1935/2004

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Further sealing systems and technical information can be found [idt-gaskets.com](https://www.idt-gaskets.com)

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