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]	$1{,}1 \times b_d$

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Further sealing systems and technical information can be found **idt-gaskets.com**

Gasket characteristics DIN 28090

$б_{V0}$ [N/mm²]	230
$б_{VU}$ 0,1 [N/mm²]	12
m (DIN 28090)	1.1
$б_{B0}$ 300 °C [N/mm²]	200

Gasket characteristics ASME

m (ASME)	2.5
Y [PSI]	2000

Approvals and test reports

TA Luft 2002 (VDI 2440/2200)

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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