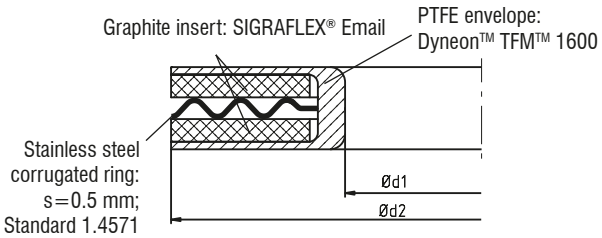
PTFE envelope gasket with inner diffusion barrier, corrugated ring and two SIGRAFLEX® Email graphite inserts

(IDT Style: ED30)

The PTFE envelope is made of modified Dyneon™ TFM™ 1600 and incorporates an inner diffusion barrier (3 mm wide), a corrugated ring (1.4571) and two graphite inserts in SIGRAFLEX® Email (each 2 mm thick). The seal features high resilience and is recommended by leading enamel flange manufacturers from DN 250 upwards; it is however available in all nominal widths.

The sealing system requires a low minimum seating stress on installation; it is resistant to most chemicals, it neither ages nor becomes brittle. The gasket is particularly suitable for use in environments with highly corrosive media, where a high degree of product purity is required, for FDA applications and in flanges sensitive to tension and bending.

Construction



Operating limits

■ Operating pressure :	max. 40 bar
■ Operating temperature :	-200 °C to +200 °C short-term: 230 °C

Gasket characteristics DIN 28090 (thickness = 6.5 mm)

σ_{VU} :	8 N/mm²
σ_{VO} :	60 N/mm²
$\sigma_{BO\ 150°C}$:	55 N/mm²
$m_{DIN\ 2505}$:	1.1

Approvals

- ■ Blowout safety as per TÜV report AW6/0580-97
- ■ FDA compliant (parts in contact with product)
- ■ Fire Safe test as per API 607 / DIN ISO 10497
- ■ TA-Luft 2002 (VDI 2440/2200) [1)]

[1)] TA-Luft: German Technical Instructions on Air Quality Control

General information
All information given in this Technical Information sheet represents our current level of knowledge and serves as information on our products and their respective scope. It is not meant to ensure any particular properties of any product or the suitability of any product for any specific application, neither does it create any liability on our part.
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04/2009
Rev. 02