

**SITTECH®**

TECHNICAL DATA SHEETS



CORRUGATED METAL GASKET

CATEGORY: FLANGE SEAL**MANUFACTURER:** IDT**PROFILE:** WD12**DIMENSION:** EN 1514-4 [EN12560-4]**MATERIAL:** WS 1.4571 / 3803

- Very high operating pressures
- High gas/liquid tightness even at low surf. press.
- Very good elasticity and recovery behaviour

- Power stations, steam gener. and in device constr.
- Gaskets for pipeline, device and container flanges
- Flange surfaces to seal safely at low surf. press.

PRODUCT NAME

Corrugated metal gasket
with graphite layer
partially covered

PROFILE

WD12

FEATURES

Consists of a corrugated stainless steel carrier [1.4671] partially covered with graphite foil layer. The corrugated ring leads to a high compression of the non-metallic material at the peaks, a low diffusion cross-section, an increase in blow-out resistance and an improvement in stability and handling. The sealing surface is reduced if only partially utilised and therefore results in an increase of the specific surface pressure. This design is to be preferred to the IDT profile WD10 for low bolt forces and for gaskets with larger widths.

Complies with TA Luft and VDI 2290¹.

OPERATIONAL DATA

	Grafit	PTFE
Pressure		Max. 160 bar
Temperature		-200°C to 550°C ³
Density [mDIN 2505]		
$\sigma_{VU0.1}$		
σ_{VO}		
$\sigma_{BO300^\circ C}$ [200°C]		

APPROVALS

TA Luft 2002 [VDI 2440/2200]	X	X
BAM oxygen	X	
BAM ethylene/propylene	X	X
DVGW [DIN 3535-6]		
KTW-guideline		
Fire Safe Test	X	X
FDA		
EG 1935/2004		
Blow-out resistance	X	X
Germanischer Lloyd		

Notes: ¹ complies with VDI 2290 only in combination with a leakage certificate as per EN 1591-1

³ upward of 450°C please consult the manufacturer