

PRODUCT DATA SHEET

1.0 SCOPE

- 1.1 This specification describes the Duragraf T sheet gasket which is a graphite sheet with a stainless steel tanged insert.
- 1.2 Product Duragraf T is manufactured for high pressure and temperature applications in power generation, petrochemical and chemical industry.

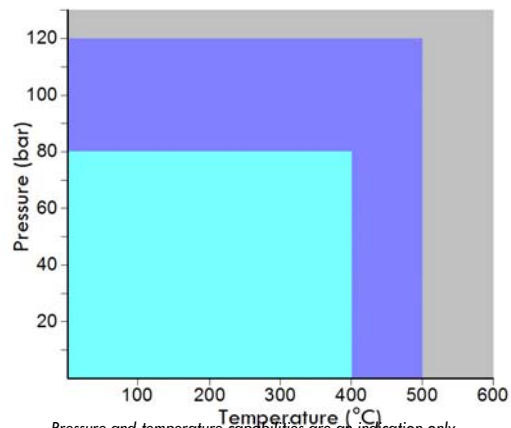
2.0 CONTENT AND CONSTRUCTION

- 2.1 Content
 - 2.1.1 High purity flexible graphite
 - 2.1.2 316SS stainless steel
- 2.2 Construction
 - 2.2.1 Flexible graphite with a 100 µm 316SS stainless steel tanged insert
- 2.3 Color
 - 2.3.1 Grey

3.0 TYPICAL PROPERTIES

- 3.1 Pressure and temperature capabilities

	resistant
	resistant, but ensure that proper installation procedures are followed
	generally not resistant, consult engineering



Pressure and temperature capabilities are an indication only.
Always consult Chesterton application engineering when in doubt.

- 3.2 Physical properties

- 3.2.1 Compressibility (ASTM) – 30-40%
- 3.2.2 Recovery (ASTM) – 10-15%
- 3.2.3 Density – 1 g/cm³
- 3.2.4 Stress resistance (DIN 52913)
 - 16h, 300°C, 50 MPa – >48 MPa
- 3.2.5 Gasket Factors DIN 2505

Thickness	1.5 mm	2 mm	3 mm
σ_{vu} (N/mm ²)	15	20	30
σ_{vo} (N/mm ²)	180	160	140
σ_{bo} (N/mm ²) 300°C	150	135	120
m	1.3	1.3	1.3

- 3.2.6 Gasket factors ASTM
 - m factor – 2.5
 - y factor – 2500 psi (17.2 N/mm²)

- 3.3 Chemical properties

- 3.3.1 This material can be used in steam and has excellent chemical resistance to practically all chemicals except strong oxidizers.

- 3.4 Approvals

- 3.4.1 Duragraf T has a DVGW, KTW and BAM approval.
- 3.4.2 Meets Shell Spec MESC SPE 85/203.
- 3.4.3 Available in Nuclear Grade

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