

# Duragraf T expanded graphite sheet

## **PRODUCT DATA SHEET**

#### 1.0 SCOPE

- This specification describes the Duragraf T sheet gasket which is a graphite sheet with a stainless steel tanged 1.1 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  $\mu m$  316SS stainless steel tanged insert
- 2.3 Color
  - 2.3.1 Grey

#### 3.0 TYPICAL PROPERTIES

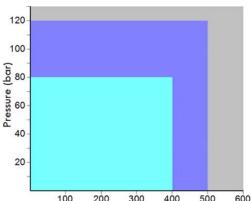
3.1 Pressure and temperature capabilities

> resistant resistant, but ensure that proper installation procedures are followed

generally not resistant, consult engineering

#### 3.2 **Physical properties**

- Compressibility (ASTM) 30-40% 3.2.1
- 3.2.2 Recovery (ASTM) - 10-15%
- 3.2.3 Density  $-1 \text{ g/cm}^3$
- 3.2.4 Stress resistance (DIN 52913)
- 16h, 300°C, 50 MPa >48 MPa 3.2.5
  - Gasket Factors DIN 2505



600 Pressure and temperature capabilities are an indication only.

Always consult Chesterton application engineering when in doubt.

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Thickness	1.5 mm	2 mm	3 mm
<b>σνυ (N/mm²)</b>	15	20	30
σ vo (N/mm²)	180	160	140
σ bo (N/mm²) 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/mm<sup>2</sup>)
- 3.3 Chemical properties
  - This material can be used in steam and has excellent chemical resistance to practically all chemicals 3.3.1 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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