

## TEADIT GR 1700 Graphite Sheet with Multiple Foil Inserts

### Description:

**TEADIT GR 1700** is a multilayer high strength graphite sealing sheet designed for high temperature applications. The sheet is comprised of 0.5 mm thick layers of highly oxidation resistant flexible graphite and 0.05 mm thick plain stainless steel foils. **TEADIT GR 1700** is available as sheets or cut gaskets.

### Properties:

**TEADIT GR 1700** was developed for end users in the process industry to cover a broad range of demanding gasket requirements with a reliable and safe product. Gaskets made from **TEADIT GR 1700** are ideal for critical applications due to a high mechanical strength and blowout resistance, a wide range of working pressure, very low cold or hot relaxation, and an extremely high maximum permissible gasket stress. Among its advantages **TEADIT GR 1700** provides an excellent torque retention and high long term sealability. The thermal stability is superior to that of standard graphite sheet grades.

### Application areas:

Because of its specific structure **TEADIT GR 1700** is particularly suited for applications with extremely high or low temperatures and pressures, with highly corrosive and aggressive media and for sensitive flange materials.

Beside the use as common pipe gaskets **TEADIT GR 1700** is the ideal solution in highly stressed applications such as equipment or heat exchanger gaskets or as sealing components in pumps and valves.

### Technical data:

- Temperature range: -250 °C up to +480 °C, with steam up to +650 °C, inert atmosphere up to +800 °C
- pH range: 0 - 14
- Pressure: Vacuum up to 250 bar
- Carbon content: > 98 %
- Chloride content: < 25 ppm
- Sulphur content: < 300 ppm
- Density (graphite): 1,1 g/cm<sup>3</sup>
- Compressibility: 35 %
- Recovery: 15 - 20 %
- Residual stress: > 45 N/mm<sup>2</sup>
- m & y: 2.5 & 3000
  
- Sheet size (mm): 1.500 x 1.500
- Thickness (mm): 1.0 / 1.5 / 2.0 and 3.0



### Approvals:

- Fire Safe according API 607
- Blow-Out resistance

### Tests:

- BAM

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences TEADIT® has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. TEADIT® does not undertake any liability of any kind whatsoever. Please note: the color of the actual product might vary from the above image on this data-sheet.

TEADIT INTERNATIONAL PROD. GMBH - Europastraße 12, 6322 Kirchbichl, AUSTRIA,  
Tel.: +43-5332-74000, Fax: +43-5332-74000-120, austria@teadit.com, www.teadit.com