

Teadit® Corrugated Gasket

Style 905 Metalbest



Corrugated metal gaskets with flexible graphite facings, style 905 Metalbest, have gained popularity in the marketplace in Class 150 and 300 ASME B16.5 flanges due to their ability to seal at low bolt loads.

Style 905 Metalbest gaskets have been fire tested and approved according to the requirements of the PVRC Fire Tightness Test (FITT) procedure and has excellent sealing ability.

One of the most frequent uses of Style 905 Metalbest Gaskets are in shell and tube heat exchangers, due to their ability to avoid mechanical shearing problems associated with other gasket types in heavy thermal cycling applications. The standard core material is Austenitic Stainless Steel and the covering layer is flexible graphite. Other alloys are available upon request. Expanded PTFE is available as a facing layer. Typical gasket thickness before seating for nominal 1/16" thickness is approximately 0.080 in (2 mm), for heat exchanger applications. Other dimensions and shapes are per customer application.

Technical Specification

Graphite Purity	98%
Core Material	Austenitic Stainless Steel (standard). Other metallurgy as specified.
Maximum Pressure	1450psi (100bar)
pH Range	0-14

Temperature °F (°C)		
Material	min	max
Standard Flexible Graphite	-400 (-240)	842 (450)
High Temperature Flexible Graphite	-400 (-240)	1200 (650)
Expanded PTFE	-400 (-240)	500 (260)

- Excellent Gas Tightness Results
- Tested and passed FITT (Fire Tightness Test) at CETIM (France)
- Superior Performance in Radial Shear Applications

Bolt Calculation

Material	"m"	"y" (psi)
Flexible Graphite	4	4500
ePTFE	4	4500

Properties and application parameters shown throughout this data sheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice; this edition cancels all previous issues.

Teadit North America.

10545 Red Bluff Rd - Pasadena - TX - 77507

Phone: 281-476-3900 - Fax: 281-476-3999 - e-mail: sales@teadit.com - engineering@teadit.com - www.teadit-na.com