



## *Certificate of Type Approval*

This is to certify that Slade, Inc.  
has met the requirements of ABS Product Type Approval for  
Pyro-Tex Carbon Fiber Reinforced Self-Forming Gasket  
Model Name(s): Pyro-Tex Spooled Gasket

**Presented to:**

Slade, Inc.  
735 S. Broad St.  
P.O.Box 920  
Mooresville  
North Carolina  
28115

**Available for military and marine use from:**

**DELAMAR**  
The DELAMAR Company  
Rte. 4, Box 190 • Dillwyn, VA 23936  
434-983-6104 Ph. 434-983-3582 FAX  
info@delamar.net • www.delamar.net

**Intended Service:**

Seals all types of metal-to-metal surface flanges in pipes, elbows, valves, heat exchangers, boiler equipment, etc., for use in steam and non-steam applications.

**Description:**

Patented carbon fiber or metal-foil reinforced vermiculated graphite braided yarns (made in North Carolina, USA). 1) Metal foil reinforced vermiculated graphite yarns are woven and compressed into a homogeneous reinforced sheet. Sheet sizes are 60" x 60", 80" x 80", 60" x 120, 80" x 160". 2) Carbon fiber or metal foil reinforced vermiculated graphite yarns are interlock-braided to form a joint sealant that is unrolled and cut-to-length from a spool and is compressed during installation and flange bolt tightening. Spool sizes are 50' in length, 0.125" to 2.0" in various shapes and cross-sections.

**Ratings:**

Temperature range: -400 degrees F to 1800 degrees F. Oxidizers: -400 degrees F to 975 degrees F. Steam up to 1200 degrees F. Maximum pressure limit: 10,000 psi, Pressure limit with 55% safety factor: 4500 psi.

**Service Restrictions:**

Unit Certification is not required for this product.

**Comments:**

Slade Pyro-Tex sheet and spool gasket material will seal irregular flange faces and steam cuts.

**ABS Rules:**

2002 Steel Vessel Rules 4-6-1/7.5

**National Standards:**

API 589, API 607, ASTM-36, ASTM-37, ASTM-38, ASTM F-152

**International Standards:**

None

**Government Authority:**

None

**Others:**

Manufacturer's Standards



Manager, ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

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