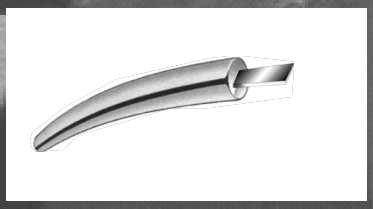
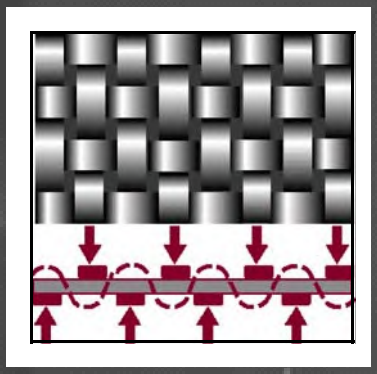
PYRO-TEX

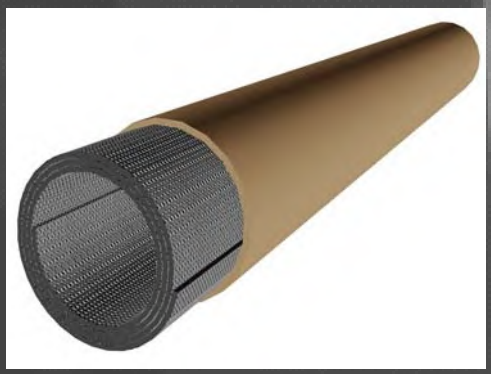
WOVEN GASKET SHEET



Individual
Reinforced
Weaving Yarn



Woven Yarns



Rolled and Packaged
in Cardboard Tubes

I.
Individual Graphite Foil Weaving Yarn is Reinforced with Stainless Steel Strips

II.
Yarns are then Woven

III.
Woven Compressed Gasket Sheet is then Rolled into Cardboard Tubes for

wegman
Est. 1797

Manufactured by SLADE

PYRO-TEX GASKET SHEET

Services:
Up to 4500 psi/310bar
Up to 1400°F/1000°C*

* Contact factory for application suggestions, especially for high pressures and temperatures over 1000°F/538°C.

Applications:
Badly oxidized flange surfaces
Ring & Full Face
Manhole & Handhole
Diesel Exhaust Flanges
Turbine Cross Over
Heat Exchangers

Properties:
Compressibility: 34% (T_{room} @ 5000 psi)
Recovery: 6% (DIN 28090-2)
Qmin (0.1 mg/m/s): 20 Mpa (2900 psi)
Qmin (0.01 mg/m/s): 35 Mpa (5000 psi)
Creep Deformation*: 70% (T=300°C & 500°C)
* *See explanation below*
m = 4
y = 3190 psi

- Eliminates shipping pallets: Gasket Sheets individually packaged in 3" cardboard tubes
- Takes physical abuse
- Die cut or shears to shape, do NOT use circle cutters
- Surface nodules promote flexibility and flow into oxidized surfaces & scratches
- Eliminates spiral leak path of spiral wound gaskets
- Layering of sheets allows for greater thicknesses
- Available in sizes as large as 80" x 160" sheets
- Single sheet thickness: nominal 0.075"

Contact the factory for Installation Instructions.

*** *Conclusions on* CREEP DEFORMATION:** results as performed by Dr. M. Gawlinski and Dr. K. Podkomorzy: "In spite of high level of compressibility and low elastic recovery, Pyro-Tex distinquishes itself with a high level of tightness. This paradox can be explained in the following way:

- (1) elastomer, which covers external gasket surfaces, adheres well with flange surfaces at the definite contact pressure value and temperature. The adherence is so effective, that the leakage between gasket surfaces and flanges surfaces is not possible,
- (2) elastomer doesn't penetrate into the gasket material and thanks to that, its middle part preserves some elasticity. Thanks to that, material displacement in the radial and circumferential direction is possible. The structure of the steel strips and expanded graphite makes easy this displacement,
- (3) decrease of the gasket thickness by more than 50% of its initial thickness leads to density increase in the middle area of the gasket and to the decrease of the leakage through the material."

According to the BHR Group report, *Development of Gaskets Made from Expanded Graphite* by M. Gawlinski and J. Blachura (given at the Sealing for Pollution Prevention and Control 18th International Conference on Fluid Sealing in Belgium), the Pyro-Tex Woven Gasket

- (1) maintains a superior tightness over other graphite gaskets during temperature cycling due to its adherence to the sealing surface;
- (2) operates with high tightness due to the low tangential resistance at compression. Thus, a larger than typical compression set, due to the presence of a nitrile rubber/graphite surface with nodules, is not a deterrent to its sealing capabilities.

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