



Innovations in Fluid Sealing



TECHNICAL DATA SHEET

Inmatex Pure Expanded PTFE Sheet

INMARCO INMATEX™ TYLE 1400

Description:

TYPE 1400 is designed to be soft, flexible & resilient enabling compressibility & conformance to flange sealing surface. Resistant to creep, hot and cold flow. High sealing ability with minimum torque. Easy installation and less downtime. Excellent permeation and emission resistant. Withstands compressive loads of over 1650 bars.

Operational Parameters:

PROPERTIES	VALUES
Material	100% PTFE (Polytetrafluoroethylene) Ultra high molecular weight fine resin without binders & fillers
Process	Highly expanded
Color	White
Thickness Tolerance	+/-0.01"
Temperature Range	-267.77°C to +315.55°C
Pressure Range	Full vacuum to 3000PSI
Chemical Compatibility Range	pH range 0 ~ 14
Specific Gravity (ASTM D 792)	0.80 +/-0.10
ASTM Testing	Yes
Sealability (ASTM F-37-B Fule A (isooctane) Fule B (nitrogen) @ 60 psig	0.02 ml/hr NA
Compressibility (ASTM F-36)	66%
Recovery (ASTM F-36)	12%
Creep Relaxation (ASTM F-38)	38%
Tensile Strength (ASTM F-152)	2106 PSI
Matrix Tensile	5455 PSI
Elongation (ASTM F-152)	169.9%
Tensile @ break point	2632 PSI
FSA Testing	Yes
FSA high pressure steam test (275°C) @ 860 PSI for 561 hrs.	Yes Pass (.49% Loss)
Hot Compression Test (300°C)	Yes
Hot Loss	70.9%
Hot Creep	17.5%

Typical Applications:

Ideal for fragile glass, FRP, Ceramic, Plastic flanges & Lined pipe joints. Flanges involving all kinds of chemical fluids & gaseous mediums. Graphite flanges in HCL, PVC & Nuclear plants.

All information and recommendations given in this technical data sheet are correct to the best of our knowledge. However, in view of the wide variety of application and operating conditions one cannot draw the final conclusion in all application cases regarding the behavior of compounds. The above information can only serve as a guideline.

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