



PRODUCT DATA SHEET

PDS-113

TITLE Thermafoil® TF-B

INFORMATION ON THIS PRODUCT DATA SHEET IS TYPICAL, SUBJECT TO CHANGE WITHOUT NOTICE AND DOES NOT CONSTITUTE A SPECIFICATION OR PRODUCT WARRANTY.

Description:

Thermafoil® Grade B is a standard industrial, monolithic flexible graphite material with a minimum purity level of 96. %. Thermafoil® Grade B graphite may contain optional added oxidation / corrosion inhibitors. This material will seal a wide variety of fluids over a large temperature range.

Material Properties:

Carbon content:	98.2% typical
Ash Content:	1.8 % typical
Leachable Chlorides:	< 10ppm typical
Sulfur Content:	<550ppm typical
Density Tolerance:	± 10% typical
Compressibility*:	43% typical for 70 lb/ft³
Recovery* :	>15% typical for 70 lb/ft³
Creep Relaxation* :	<3% typical for 70 lb/ft³
Oxidation weight loss:	3% typical
Tensile Strength:	650 psi typical for 70 lb/ft³
Temperature Use Range:	-400°F to 975°F (-240°C to 525°C)
Seal ability:	<1.5ml/min Typical for 70lb/ft³

Material available in 50-90#/ft³ ±10% density and 0.010", 0.015", 0.020", 0.025" 0.030" and 0.060" thickness

* Depends on material density (Data shown based on 70lbs/cu. Ft density)

* Thermafoil® may be used at higher temperatures in non-oxidizing environments or with non-oxidizing fluids such as steam.

Revisions/Description/Date/Initial

-	Release	3/07/11	DG
A	Added Thermal Conductivity Reference.		RV
B	Added Functional/Temperature Range.		RV
C	Referenced Steam Temperature.		RV
D	Revised properties & added oxidation & corrosion inhibitor.		RV
E	Removed reference to oxidation & corrosion inhibitor.		RV
F	Updated material properties	11/29/11	DG
G	Revised properties & added "may contain optional added oxidation/corrosion inhibitors"	3/29/12	DG

Jennifer Klum 3/20/13
Department Manager Approval Date