



EGC Enterprises, Inc.

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PRODUCT DATA SHEET

PDS-188

TITLE Thermafoil® Ni-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® Ni-B flexible graphite is a high performance semi-rigid adhesive bonded laminate made with a .0005" thick 200/201-nickel insert bonded between Thermafoil® Grade-B flexible graphite sheets. Thermafoil® Ni-B can be used as a replacement for asbestos materials in almost all extreme temperature, chemical and pressure applications. It is recommended for sealing against steam and most other media with the exception of strong oxidizing reagents. Thermafoil® Ni-B contains no binders, respirable fibers or other additives and is totally non-toxic.

Typical Properties:

Standard Thicknesses:	0.015 in (0.40mm)	0.030 in (0.75mm)	0.060 in (1.5mm)
Density / facing (typical):	68 lb/cu.ft (1.1g/cm³)		
ASTM Compressibility at 5,000psi / 34.5 MPa (typical):	43%		
ASTM Recovery (typical):	15%		
ASTM Creep Relaxation (typical):	< 5%		
Oil 1. Thickness increase:	3% typical		
Oil 3. Thickness increase:	4% typical		
ASTM Fuel A Thickness Increase:	4% typical		
ASTM Fuel B Thickness Increase:	6% typical		
Leachable Chlorides:	< 50 ppm		
Sulfur Content	< 1000 ppm (550 ppm typical)		
Maximum temperature:	1832° F (1000° C)		
Temperature Range:	Cryogenic to 1832° F (1000° C) inert or reducing atmospheres Cryogenic to 932°F (500°C) oxidizing atmospheres*		

*even in inert or reducing service conditions, oxidation may occur above 932° F (500° C).

Jennifer Klem
Department Manager Approval

8/2/13
Date