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**PRODUCT DATA SHEET**

**PDS-211**

TITLE Thermafoil® TF-LAP-J (Nuclear Quality Alta Pressione)

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

**Description:** Thermafoil® TF-LAP-J (Nuclear Quality Alta Pressione) is a multi-layer high-strength sheet material typically comprised of alternating layers of high quality, nuclear grade graphite foil (TF-J) with an inorganic, non-metallic, passive oxidation / corrosion inhibitor and .002" (0.05 mm) thick high integrity, stainless steel foil. Varying thicknesses can be achieved to meet your needs by adjusting the overall material height through the number of layers used. Thermafoil® TF-LAP-J has an excellent blowout resistance and is well suited to handle gasket pressures over 40,000 psi and internal pressures up to 3500psi. TF-J meets General Electric Nuclear Non-metallic Specification D50YP12 (Rev 2).

Graphite Base Characteristic	Typical Value
Carbon Content	≥ 99%
Leachable Chloride	≤ 50 ppm
Sulfur Content	≤ 630 ppm
Compressibility	40% for 70#/ft <sup>3</sup> (1.1g/ccm)
Recovery	4 - 5% for 70#/ft <sup>3</sup> (1.1g/ccm)
Creep / Relaxation	≤ 4 % for 70#/ft <sup>3</sup> (1.1g/ccm)
Densities available	50, 70, or 85 #/ft <sup>3</sup> (.8, 1.1, or 1.4 g / ccm) ± 10%
Temperature Range	-400 to 975°F* (-240 to 525°C)

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

Department Manager Approval

7-23-14

Date