

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

Firefly Millboards

Product Description:

Firefly non-asbestos / non-ceramic fiber Millboards are used in a wide variety of industrial applications for high temperature thermal insulation and gaskets. Firefly Millboards exhibit exceptional wear resistance. This, coupled with performance at temperature and ease of cutting, makes Firefly the ideal solution to all high temperature gasketing problems. In addition, Firefly Millboard has set the standard for roller cladding material, designed to meet the most stringent requirements of glass and steel producers worldwide.

Applications:

These extremely versatile Millboards combine the most desirable characteristics of traditional Millboards with their own impressive features. These include:

- Excellent thermal stability and high temperature mechanical strength
- Good heat ageing properties
- Good insulating properties
- Resistance to molten metals
- Excellent electrical resistance
- Wide range of grades to match specific applications
- Very clean product; die cuts and punches excellently

Firefly 700 Millboard (FF700)

A commercial grade Millboard that is both strong and flexible with low shrinkage up to 1832°F (1000°C). A high quality general use gasketing/heat shield material.

Firefly 800 Millboard (FF800)

The preferred material for conveyor roll coverings in float glass manufacturing. It's exceptional wear resistance and extremely smooth surface finish makes FF800 a first class alternative to asbestos Millboard materials.

Firefly 900 Millboard (FF900)

A specially developed, low fuming, low smoke product which is recommended for high temperature molten metal contact applications.

Services:

Foundry Service and Supplies is a full-service fabricator with an unmatched reputation for quick turn-around and competitive pricing. We can easily handle any job for fabricated parts or stock sheets, from high production quantities to prototypes. We specialize in die cutting the Firefly line of Millboard materials. Our quality and reliability make Foundry Service the best choice for all of your high temperature material requirements.

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Firefly Millboards Typical Properties

Property*	Units	FF700	FF800	FF900
Density	Lb/Ft ³ (Kg/m ³)	62.6 (1000)	53.2 (850)	62.6 (1000)
Color		Tan	Pink	Buff
Tensile Strength	PSI (MPa)	725.2 (5)	725.2 (5)	725.2 (5)
Flexural Strength	PSI (MPa)	1015.3 (7)	942.8 (6.5)	870.2 (6)
Compression (at 3045 psi = 21 MPa)	%	36	36	34
Electrical Resistance	Ohm x 10 ⁹ /in ² (Ohm x 10 ⁹ /cm ²)	49.4 (7.9)	48.1 (7.7)	26.3 (4.2)
Thermal Conductivity	BTU-in./hr.-Fl. ² -°F (W/mK)	.83 (.12)	.76 (.11)	.76 (.11)
Continuous Operating Temperature	°F (°C)	1832 1000	1832 1000	1832 1000
Ignition Loss	%	11	11	8
Shrinkage: 24 Hrs. at 1832°F (1000°C)	%	2.3	2.1	1.8
Moisture Content	%	1	1	1
Standard Sheet Size	in. mm	40 x 40 1016 x 1016	40 x 40 1016 x 1016	40 x 40 1016 x 1016

* The Firefly properties listed represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with your supplier to assure current information