

# FBX DURA-BLOK

## TECHNICAL DATA SHEET

**DESCRIPTION AND APPLICATION:** FBX Dura-Blok is composed of high temperature mineral fibers bonded together with a special combination of organic and inorganic binders. FBX Dura-Blok is recommended for use in applications requiring a higher temperature rating and/or greater residual strength than available in organic bonded board insulations. Its low rate of moisture absorption allows placement of castable refractories in direct contact without degradation. Typical uses of FBX Dura-Blok include direct or refractory back-up installation in ovens, furnaces, kilns, power generation equipment and a wide variety of process equipment. FBX Dura-Blok is easily cut with a knife or sawed to fit irregular surfaces. Dura-Blok is recommended where extra compressive strength and rigidity is required.

**SERVICE:** Recommended for continuous service at temperatures through 1900°F. Melt point exceeds 2000°F.

### THERMAL PERFORMANCE (ASTM C 177)

MEAN TEMPERATURE °F	100	200	300	400	500	600	700	800	900
'k' FACTOR	.37	.39	.43	.48	.53	.58	.63	.68	.74

### PHYSICAL PROPERTIES

Service temperatures limit °F.....	1900	Fire Resistance.....	Incombustible
Density, lbs./cu.ft. (nominal).....	17	Modulus of Rupture, lbs./sq.in.....	94
Moisture absorption.....	Non-hygroscopic	Compressive strength, lbs./sq.ft.@10%.....	3600
Corrosion.....	Does not cause or accelerate	Linear shrinkage @ 1900°F.....	typical 2.1%

**CHEMICAL COMPOSITION** FBX Dura-Blok is approximately 82% high temperature mineral fiber, 18% binder and additives. The approximate chemical compositions of the fiber is as follows:

Silica Dioxide.....	40%	Magnesium Oxide.....	8.9%
Alumina Oxide.....	13.1%	Organic.....	3.75-4.5%
Ferric Oxide.....	0.7%	Calcium Oxide.....	31.0%
Water in Clay.....	1.0-1.2%		

**STANDARD SIZES:** Available in 1/2" thru 4" in 1/2" increments, 6", 12" and 24" widths and 18" and 36" lengths. Non standard sizes are quoted upon request.

**SPECIFICATION COMPLIANCE:** Non-combustible per ASTM E 136. Non-corrosive. Manufactured to ASTM C 795 and MIL-I-24244 if requested. Meets ASTM C 612 Type v. Linear Shrinkage (length) 2.1% when tested at 1900°F soaking heat ASTM C 356.

See American Fibrex® 2000 Series Industrial Insulation Brochure for a description of our complete line of industrial insulation products.