Disposable Refractories

Application Note

Significant Issue:

Interfibe is utilized in disposable refractory applications to improve fiber strength. Many inorganic fibers are utilized in refractory applications to provide high temperature strength, but optimal green strength is provided using Interfibe cellulose fibers at 2 to 10 percent by weight.

Customer Objectives:

Interfibe cellulose fibers can be utilized by manufacturers of refractory products such as:

- Hot top fiber boards
- Ladle liners
- Topping boards
- Hot tops
- Gaskets
- Tundish slurry
- Tundish panels
- Hot metal covers
- Topping compounds

Many manufacturers use hammermill newspaper as a source for cellulose. This baled paper product is difficult to use since it must be manually separated into weighable portions and may contain variable and excessive amounts of water. Interfibe cellulose fibers, packaged in uniform bag weights with consistent fiber length and low moisture content, provide substantial economic and handling advantages.

Interfibe Solution:

Interfibe 185 is an excellent green strength fiber for products manufactured with 0 to 10 percent water. The clay coating of Interfibe 185 raises the temperature time burn out resulting in a slower burn out of the fiber. Tests at 1700 degrees F show a 50% improvement over ordinary cellulose. At hot strengths of 400 to 800 degrees F, Interfibe 185 has an advantage over other cellulose because fiber-to-clay ratios remain constant.

interfibe™

For further information, call your local distributor or Interfibe Corporation.

Phone: (800) 262-3771
Fax: (216) 248-2132

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Disposable Refractory Application Using Interfibe 185

6% WATER PASTE MIXES:

Tundish Panels (C-1)

MgO (90% Pure)	85%
Sodium Silicate (liquid)	13%
Interfibe 185	2%
	100%

Ladle Liners R&D Mix (C-2)

Al_2O_3	70%
Bonding Clay	15%
Sodium Silicate (liquid)	13%
Interfibe 185	2%
	100%

Limestone Hot Tops (C-3)

12 Mesh Limestone	85%
Sodium Silicate (liquid)	13%
Interfibe 185	2%
	100%

Dry Mixes

Topping Compounds, exothermic (D-2)

Aluminum Dross (25% Al)	80%
Potassium Aluminum Floride	1%
Expanded Perlite	10%
Interfibe 185	9%
	100%

Hot Metal Covers, insulating (D-3)

Celetom MP-78	90%
Interfibe 185	10%
	100%

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