

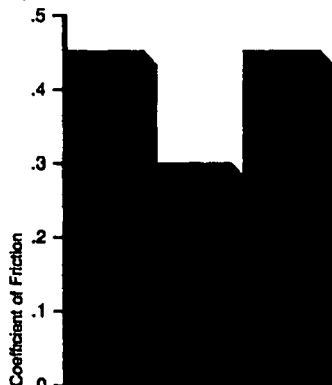
ABEX^{EXL} BRAKES

ASBESTOS-FREE

Heavy Duty Brake Linings Deliver Long Life and More Value.

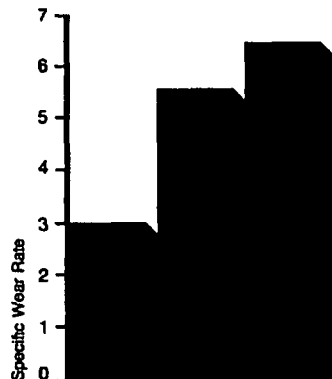
Why Fiberglass

The decision to use fiberglass as an asbestos substitute was the result of extensive laboratory testing which compared the numerous alternatives. Fiberglass was tested against Kevlar[®] aramid, carbon and ceramic fiber materials to determine which offered the best combination of heat resistance, strength, stability, endurance and overall value. The test results below are for your own comparison.



Coefficient of Friction

Like ceramic material, fiberglass proved to have a high coefficient of friction. It's significantly higher than Kevlar[®] aramid, plus it remains stable over the life of the lining.



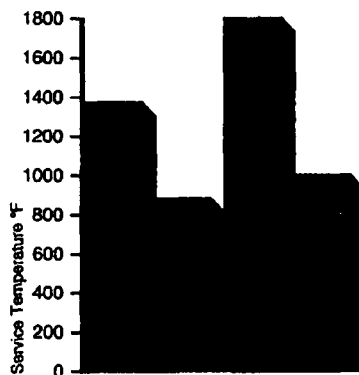
Specific Wear Rate

A relative characteristic, both ceramic and Kevlar[®] aramid materials wore down considerably faster than fiberglass material. The result is long, dependable life, and without abrasive steel slag materials.

Kevlar[®] is a registered trademark of E.I. DuPont de Nemours & Company, Inc.

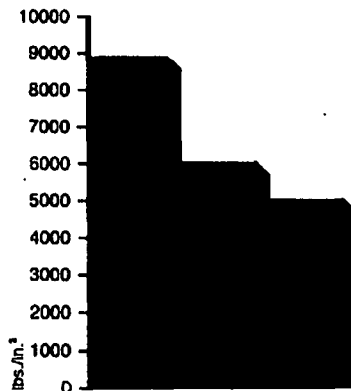
The First Choice

Based on these and other tests, fiberglass material was chosen as the best alternative to asbestos fiber. Using any of the other materials would have required either a sacrifice to performance, durability or strength. The obvious choice was fiberglass. Because at Abex, quality will not be compromised.



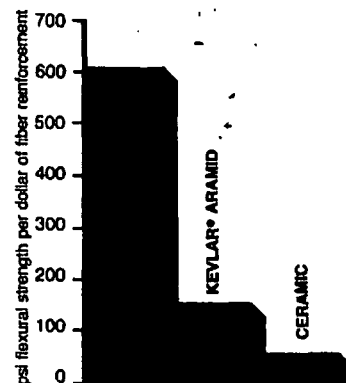
Heat Resistance

A primary consideration for stability and wear, fiberglass withstood much more heat for a longer period of time than carbon or Kevlar[®] aramid. The clear choice once again was fiberglass.



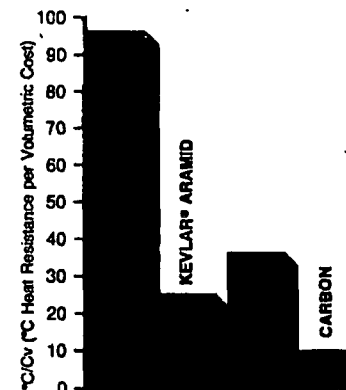
Flexural Strength

The ability of a fibrous material to resist breakage is critical to its long lasting integrity. Fiberglass is 50% stronger than the alternative reinforcements, which helps prevent rivet shifting and lining cracking while in service.



Reinforcing Value

Since performance at high cost is unacceptable, calculations were made to determine the relative material values. Fiberglass proved to be 4 to 12 times a better value than Kevlar[®] aramid and ceramic materials respectively.



Heat Resistance Value

The relative heat resistance of fiberglass shows it is by far the best choice for obtaining structural integrity at a reasonable cost.

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