

# Science Friction

## Major Improvement for Friction Applications

### Braketex® and Clutchtex® – the World's ONLY polyparaphenylene terephthalamide Needled Fiber Reinforced Polyimide Composite Friction Lining

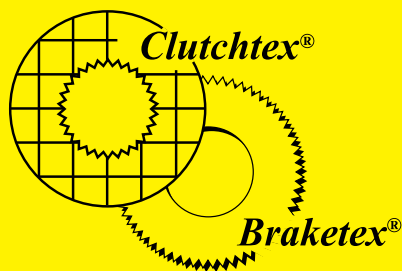


- » Lasts 3-5x longer than other wet and dry friction materials. That is, the wear rate is approximately 1/3 to 1/5 of traditional organic friction products.
- » Doesn't abrade the opposing surface, even in copper-drummed water cooled brakes.
- » Polyimide binder resin provides much higher heat resistance and energy capacity than other organic and sintered friction materials.
- » Delivers higher coefficient of friction and torque (after a longer break-in period).

Clutchtex®/Braketex® is manufactured with a **PATENTED** textile sheet-making process that enables the use of 100% long Kevlar® fibers for a unique open porosity non-woven product. Unlike other friction materials, it does **NOT** contain Kevlar® pulp, or cotton fibers that break down easily because of heat and high torque, resulting in lining failure. Because it withstands higher energy, it is ideal for heavy duty, performance and industrial applications.



Scanning Electron Microscopy shows patented fibrous structure



For more information, contact:  
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