

CAPABILITIES OF THE FRICTION PRODUCTS DIVISION

As the recognized world leader in the manufacturing of friction materials used for braking applications, the Abex Friction Products Division is dedicated to providing materials of the highest quality attainable. The critical nature of braking systems demand it. It's how the division has gained its prominence in the industry, and why many of the world's largest and smallest vehicle manufacturers depend on Abex for premium quality friction materials.

Research & Development

Abex is a pioneer in the development of test methods and procedures for friction materials used for braking. The division evaluates hundreds of small friction material development samples - each with different compounds of non-asbestos and organic materials, resins and metals - and tests each for fric-

One of largest facilities of its kind, it contains several automotive dynamometers which simulate vehicular braking service conditions for any combination of various speeds, loads, temperatures and torque outputs. All dynamometers are programmed to specific operation parameters and feed all data out in recorded form, or into computers for interpretation and analysis.

The Engineering Test Center provides Abex with world renown leadership in advancing friction material technology and gives the division unique capabilities in the development of premium quality friction materials.

Manufacturing

As the most widely-specified brand of brake linings for automotive vehicle and equipment manufacturers, Abex constantly strives to deliver consistent quality materials where they're needed, when they're needed. A global network of manufacturing plants and distribution centers assures this.

Each step of the manufacturing process is executed with precise control at all times to produce friction materials of uniform high quality. After the raw materials have been inspected and released for production, they are precision weighed and combined according to the prescribed formula.

Next, Abex linings undergo the most lengthy pressure cure cycle of any brake lining made. The curing process subjects the material to intense heat and pressure while confined in molds to assure product consistency. Brake blocks and linings are then finished to SAE specifications prior to packaging and shipping.

All manufacturing mixers, presses and ovens are precision instrumented to insure proper temperatures, pressures and cycle times. It's the most comprehensive manufacturing process used in the industry and it's unsurpassed in providing materials of consistent high quality and performance.



tion coefficients and other critical properties.

Then full size production prototype blocks and linings with identical formulations are brought to the Abex Engineering Test Center in Mahwah, New Jersey for high-stress dynamometer testing.



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