

Revised 2/1/07

# DakotaPURE™ 4000

## APPLICATIONS & BENEFITS

DakotaPURE™ is a highly pure muscovite mica which possesses an outstanding combination of mechanical, physical, chemical, electrical and thermal properties which are rarely found in other products. DakotaPURE™ is a translucent mica which is gray/silver in color and is free of asbestos and non-asbestos fibrous materials. DakotaPURE™ can be used in a variety of polymer applications to improve stiffness, increase tensile and flexural properties and improve heat distortion temperature. It is also used extensively for sound dampening applications. In the coatings and construction products industry, DakotaPURE™ enhances weatherability, provides barrier protection and increases chemical resistance. DakotaPURE's™ unique combination of electrical properties make it a super insulator.

Our 1060 acre mica deposit, state-of-the-art processing facility and great customer service further enhance the benefits of using DakotaPURE™. Contact Pacer to discover how the properties of DakotaPURE™ mica can benefit your application.

## TYPICAL SIEVE ANALYSIS (Wet Screened)

|                  | <u>Typical</u> | <u>Specification</u> |
|------------------|----------------|----------------------|
| Minus 38 Microns | 98.0%          | 97 - 100%            |

## TYPICAL PHYSICAL/CHEMICAL PROPERTIES

|                  |                 |                      |
|------------------|-----------------|----------------------|
| Bulk Density     | 25 lbs./cu. ft. | 23 - 28 lbs./cu. ft. |
| Loss on Ignition | 0.3             |                      |
| Loss on Drying   | 0.01            |                      |
| Specific Gravity | 2.66            |                      |
| Oil Absorption   | 43              |                      |
| pH               | 8.0             |                      |
| Moh's Hardness   | 2.5             |                      |

## REGULATORY APPROVALS

DakotaPURE™ mica products meet the FDA requirements of the Title 21 CFR §175.105.05 Adhesives; §175.300 Resinous & Polymeric coatings; §177.1520(B) Olefin polymers; §177.2800 Rubber articles intended for repeated use; §178.3297 Colorants for polymers. These mica products are listed on the US TSCA list and Canadian DSL. See MSDS for safety and additional regulatory information.

The information and data contained herein are believed to be accurate, but the manufacturer makes no warranty with respect thereto and disclaims responsibility for reliance thereon. This data relates only to the specific material described herein, and does not relate to use in connection with any other materials or in any process.

Pacer Corp. makes no warranties, expressed or implied, concerning this product. No warranty of fitness for any particular purpose is made, and we assume no responsibility whatever for any use of this product. This product shall be used by properly trained personnel, and in compliance with applicable health and safety laws and regulations.