

# PROSHIELD® 5000D

## Commercial Laundry Applications

ProShield® 5000 D offers a patented, EPA registered technology for inhibiting the growth of a wide array of bacteria, mold, mildew, algae, fungi, and yeast on textile materials. Unlike conventional antibacterial agents that leach from the surface and into the environment, ProShield® 5000 D produces a durable biostatic finish that provides a physical piercing of the microbes' cell walls. Conventional antibacterial agents work like poisons, leaching into microorganisms and disrupting one or more of their vital functions. The problems with this mechanism are (1) the chemical poisons can be quickly exhausted or wear off from the surface being protected, thus requiring regular reapplication and (2) the hardier microbes that survive can mutate and flourish, even in the presence of these poisons. Since ProShield® 5000 D physically ruptures the cell walls of these microbes, there are no poisons to be exhausted and no "super bugs" are created.

ProShield® 5000 D is an aqueous solution of an organosilane active material. ProShield® 5000 D contains no solvents and is not flammable or corrosive. It is extremely durable and remains effective after multiple launderings. In addition to antimicrobial protection, ProShield® 5000 D provides durable antistatic properties and lubricity on all types of fibers. ProShield® 5000 D can be applied to a broad range of textile products, including bed sheets, towels, blankets, socks, bedspreads, carpets, draperies, mattress pads and covers, outerwear, nonwovens, shower curtains, upholstery, wallpaper, undergarments, uniforms, footwear, and outdoor equipment. Optimum application and drying conditions should be determined for each substrate before commercial application.

### PHYSICAL PROPERTIES

Appearance:	Clear colorless liquid
pH:	3.0 - 5.0
Specific Gravity:	0.97 - 1.01
Solubility:	Readily soluble in water
% Active:	5.0

### Laundry Application:

Run a complete wash cycle, including final rinse and extraction. Start a new cycle and fill the machine with hot water (120°F). Add 6% on weight of goods (6 pounds ProShield® 5000 D to 100 pounds of laundry). Run for 20 minutes at 120°F to exhaust the ProShield® 5000 D. Drop the bath without rinsing, extract, unload goods, and dry as usual.

**NON WARRANTY:** The suggestions and data in this bulletin are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions on an experimental basis before adopting them on a commercial scale.