

DuPont™ Nomex® Fact Sheet

DuPont™ Nomex® brand fiber is an inherently flame-resistant, high-temperature fiber that won't melt and drip or support combustion in the air.

The protection offered by Nomex® is permanent — it cannot be washed out or worn away. It is particularly strong and resistant to chemical attack and offers outstanding resistance to a broad range of chemicals, acids and alkalis.

A key factor in the protection Nomex® provides is its ability to carbonize and thicken when exposed to intense heat, which increases the protective barrier between the heat source and the skin to minimize burn injury.

For over three decades, firefighters have relied on turnout gear, stationwear and accessories of Nomex® to meet crucial performance needs like durability and mobility in addition to flame protection.

DuPont™ Nomex® fiber is also used for military gear such as flight suits and Combat Vehicle Crewmen coveralls.

For more than 30 years, Nomex® brand fiber has been the auto racing industry leader in providing thermal protection against the ever-present danger of flash fire at the racetrack.

More than 95 percent of drivers, pit crew members and track officials in the racing industry wear racing apparel of Nomex® because it plays a pivotal role in providing the valuable seconds needed to escape and survive flash fires that result from both on — track collisions and pit accidents.

Many racing suits and firefighter turnout gear designs are now blended with Kevlar®, another DuPont fiber, which provides additional strength and structural integrity when exposed to heat and flame.

Motor, generator, transformer and other electrical equipment manufacturers have counted on DuPont™ Nomex®, the standard for electrical insulation, for more than 40 years. The electrical, mechanical and thermal properties offered by Nomex® can help extend the life of electrical equipment, reduce premature failures and repairs, and act as a safeguard in unforeseen electrical stress situations in applications such as power generation and distribution, microwave ovens, and transportation equipment.

Honeycomb of Nomex® paper is used for lightweight structural support and helps substantially improve the performance of most commercial aircraft. Nomex® can be found in flaps, wing-to-body fairings, nacelles, radomes, doors, floors, ceilings, stow bins and walls.

Nomex® can also be found in such diverse consumer products as lampshades, oven mitts, fire blankets, and disposable cookware used in traditional Japanese meal preparation.



The miracles of science™