



Protecting our Protectors

against Thermal Hazards



Nomex.



ame

Nomex® Applications for Military Forces

With over 40 years experience in the personal protection sector, DuPont offers a wide range of proven, science-based solutions such as Kevlar® and Nomex®.

Nomex® fibres are used across a broad range of applications. It is a critical component in protective apparel and accessories as used by fire fighters; police officers; first responders; civil rescue teams; civilian, police and military pilots; military sailors and ground forces all over the world. **Nomex® protects** the wearer from the flames and the intense heat those **forces** may encounter. It offers superior thermal insulation, durability and freedom of movement.

Nomex® used in **personal protective clothing** responds to a wide variety of **military end uses**. From submarine crew and marine sailors to infantry troops, MRAP vehicle crew, deminers, paramedics and logistic staff, they have found reliable and trusted solutions in the Nomex® garments, whether their hazards are flash fire, fire, explosion, electrical arc, molten metal splashes, static discharge, chemical repellence or low visibility.

Resistant

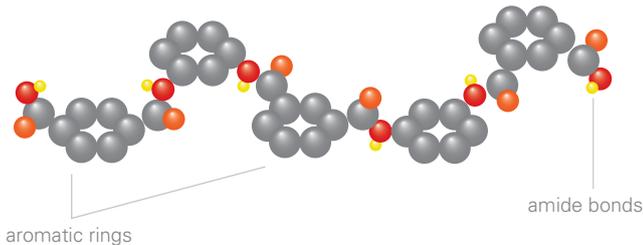


Nomex.

Why Nomex®?

Comfo

Nomex® is an **inherently flame-resistant**, high-temperature resistant meta-aramid fibre that doesn't melt and drip or support combustion in the air. A key factor in the protection provided by Nomex® is its ability to carbonize and thicken when exposed to intense heat.



This typical reaction increases the protective barrier between the heat source and the wearer's skin and minimizes burn injury, almost comparable to the way a modern car protects its occupants with air-bags.

Nomex® derives its flame resistant properties from its **unique structure** of aromatic rings and conjugated amide bonds. As this thermal behaviour is obtained by its molecular structure and not by applying a flame retardant chemical substance to the fabric, yarn, fibre or polymer, Nomex® offers permanent protection, which cannot be washed out or worn away. Fabrics from Nomex® are soft, lightweight, behave like a traditional textile fabric and are therefore extremely **comfortable to wear**.

The absence of any flame retardant chemical substance reduces substantially the amount of smoke and chemical gasses created in case of fire enabling military forces to keep a clear eye on the dangerous environment they are in, and reduce the risk of lungs irritation.



Nomex.



portable



Durable

Nomex[®] – The fibre that reacts in a crisis

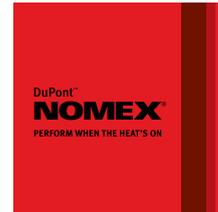
Durable performance + great value for money

Outershell fabrics from Nomex[®] brand fibre wash well, are extremely hard wearing and resistant to tear over their wearlife. On a longer term comparative cost basis, the selection of garments made from Nomex[®] actually helps to reduce clothing budgets.

Quality assurance

DuPont knows that as far as safety is concerned garment design can be just as important as the choice of fibre. Together with its partners, DuPont works to continuously improve the protective performance of military garments.

When you see the Nomex[®] labels and tags, it's an immediate assurance that the performance of the outershell fabric and the multilayer garment constructions surpass all regional and country specific norms for heat and flame protection.



Nomex.

For more information on DuPont™ Nomex® and Kevlar® products, visit our websites:

www.nomex.com
www.kevlar.com

DuPont™ Nomex® / DuPont™ Kevlar®

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