



DuPont Nomex®

Protection you deserve

DuPont Protection Technologies

Andreas M Fries, Nomex® Apparel Sales Manager

CTIF Stockholm, 13 June 2013, Arlanda Airport

The Foundation of DuPont



CORE VALUES

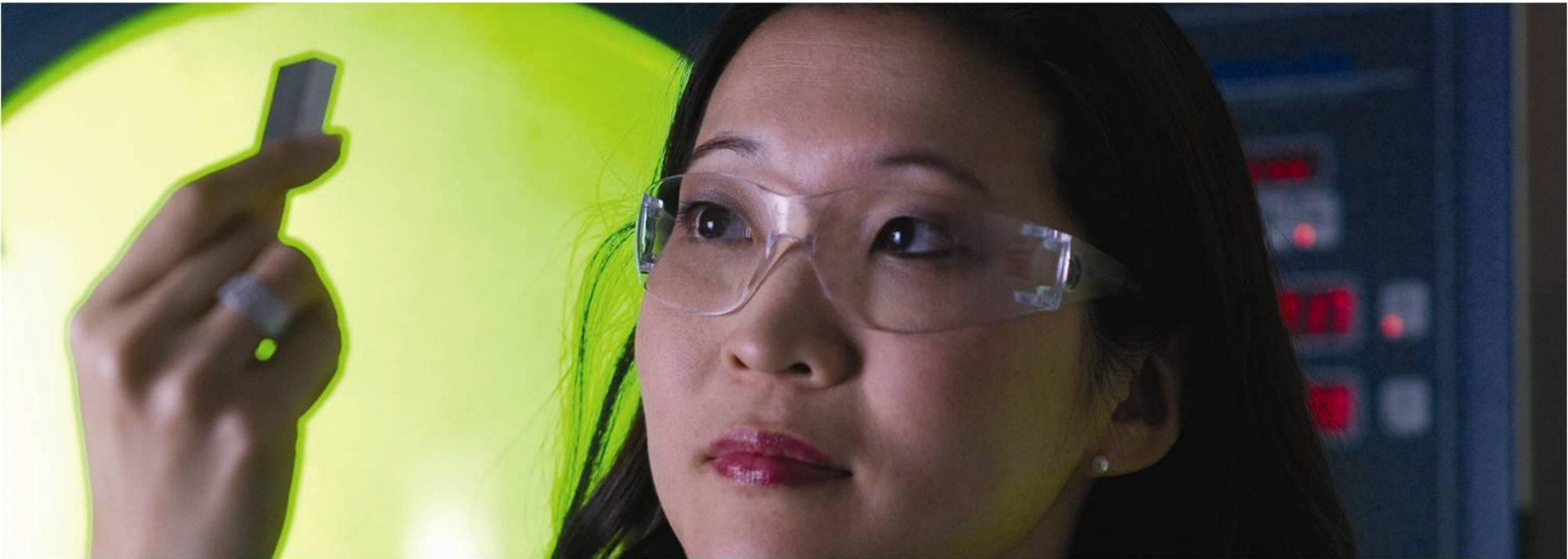
Safety and Health

Environmental Stewardship

Highest Ethical Behavior

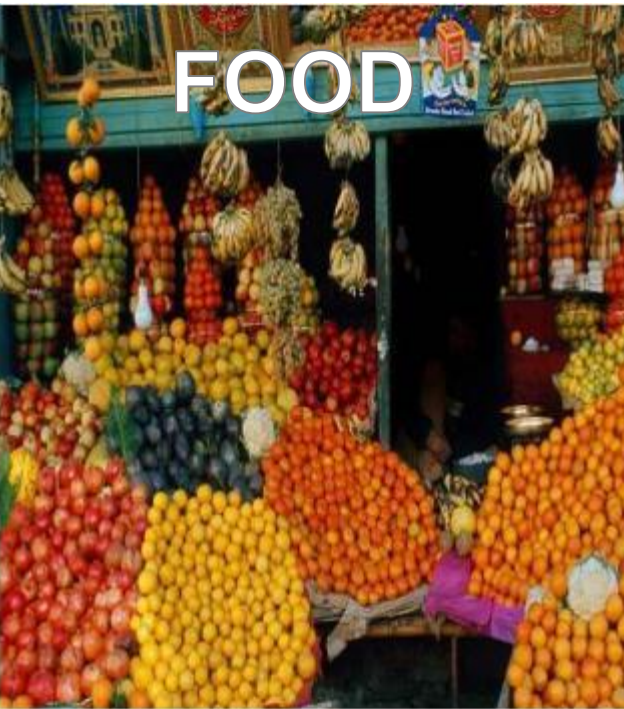
Respect for People

**67,000 DuPont employees in
more than 90 countries are
working to find solutions through**

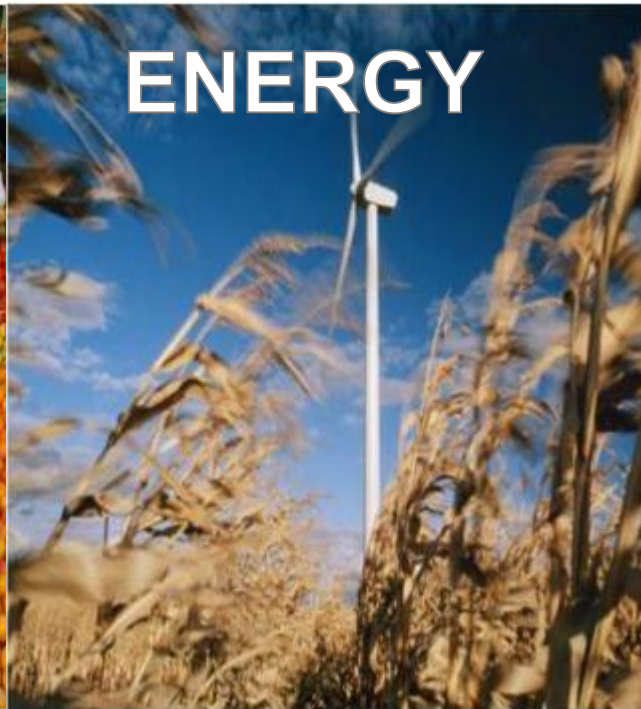


Science.

We are applying our science to find solutions to some really **BIG challenges...**



FOOD



ENERGY



PROTECTION

FEEDING THE WORLD

REDUCING OUR DEPENDENCE ON FOSSIL FUELS

KEEPING PEOPLE AND THE ENVIRONMENT SAFE

DuPont Protection Technologies (DPT)

The global innovation leader in scientifically engineered products & systems that protect lives, the environment and critical processes

Kevlar®
brand fiber

Nomex®
brand fiber

Tyvek®
protective materials

Tychem®
Protective garments

Sontara®
Spunlaced products

Tensylon®
High Performance
Polyethylene



Energy



Medical



Government



Worker
Protection



Automotive



Performance
Materials

DPT Global Presence



DuPont™ Nomex® - Protection you deserve

From Los Angeles to London and from Frankfurt to Singapore:
The garment of choice for firefighters around the world.



DuPont™ Nomex® - Protection you deserve

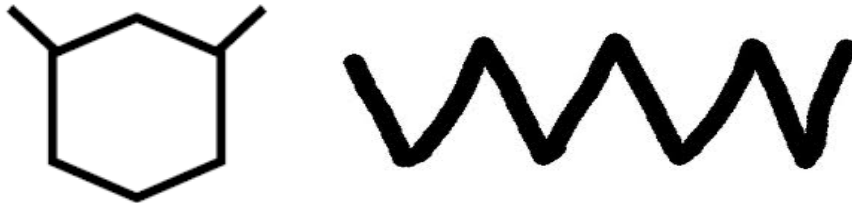
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Nomex.

Basic features of aramid fibres

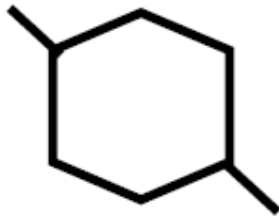
Meta-aramid - **DuPont™ Nomex®**:



- Meta structure: use up heat energy by changing molecular structure → high (inherent) heat and flame resistance, low heat transfer
- High durability → high abrasion resistance, tolerates sunlight and washing
- High elongation, color choice → flexible textile behavior and color portfolio;

Basic features of aramid fibres

Para-aramid – DuPont™ Kevlar®:



- very high tensile strength (however “harsher” feel)
- para-structure: high molecular stability, no change (however high heat transfer)
- “rigidity”, no elongation (fibrillation, tendency for aesthetic deterioration and sensitivity to sunlight and washing)

Nomex® fibre drives a balanced performance for outershells in EN469 norm environment

Nomex® based fabrics

Kevlar® based fabrics

Heat and flame protection



✓ Active reaction in heat

High thermal damage tolerance (look intact after heat impact) – but higher heat transfer

Heat-stress protection



✓ High air-permeability

Some fibrillation → may limit air permeability

Performance durability



✓ High abrasion resistance, UV resistance etc enable exceptional wearlife

Extremely high tensile strength when new (then dependent on wear and use, washing, sunlight exposure)

Wearlife-cost



✓ Lower wearlife-cost = budget-smart solution

Dependent on usage intensity.

FR Fleece Jackets made from NOMEX(R)

by FUCHSHUBER-TECHNO-TEX



THANK YOU FOR YOUR ATTENTION !

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