Dyneema[®] Diamond Technology

The fiber for unmatched levels of comfort and cut protection.

Listening to glove users reveals one consistent challenge: make cut protection gloves more comfortable to wear. Dyneema® Diamond Technology is used to make ultra-lightweight gloves that provide maximum protection and durability, with easy natural hand movement. For a firm grip or delicate precision, gloves made with Dyneema® Diamond Technology give all-day protection.

Thin fiber allows better feel and control

Second to none quality control for reliable protection

The unique polymer used for Dyneema® Diamond Technology gloves provides high strength, cool-touch comfort and high durability (abrasion and tear resistance). DSM's unique and patent-protected technology more than doubles the cut resistance of the yarn over the standard Dyneema® fiber by spinning specially engineered microparticles into the polymer.

Cross section of fiber based on Dyneema® Diamond Technology Cut resistant micro-particles enhance the fiber

- Unique polymer providing high strength, cool-touch comfort and maximum durability Increased cut resistance without fiberglass discomfort

Radiates heat away from hands for all day comfort

Durable and washable for long lasting protection

The Dyneema® promise

Dyneema[®] enhanced fabric will endure under even the most challenging of conditions, fulfilling the brand promise to be with you when it matters.





Dyneema[®] Diamond Technology enables our partners to manufacture ultralightweight gloves with the same cut resistance as thicker and heavier gloves made from aramid, HMPE or commodity fibers such as nylon. The chart illustrates the diameter ratio of fiber required to achieve EN388 cut level 3 gloves. Dyneema[®] Diamond Technology based gloves can achieve the same cut performance with considerably thinner fibers compared to alternative products.

More reliable and comfortable than glass fiber

Gloves containing Dyneema® Diamond Technology provide consistent high cut resistance without the discomfort of glass fiber. Glass fiber is often used in gloves to achieve



high levels of cut resistance. However glass fiber has one major disadvantage - it is very brittle and therefore the yarn breaks easily - which reduces the level of safety and comfort.

Glass fiber



Using glass fiber to boost cut ratings relies on the delicate integrity of continuous glass filaments. In addition to reduction of cut resistance, breaks can cause wearer discomfort which may lead to non-compliance with established safety protocols.

Dyneema® Diamond Technology



Cut resistance in Dyneema® Diamond Technology comes from microparticles within the fiber itself. In addition to structural integrity, this material is allowing glove manufacturers to create thinner, lightweight designs while maintaining high cut resistance and user comfort properties.

Let's make the world's safest hands. For more information visit dyneema.com

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DSM Dyneema defines glass fiber as material constructed from continuous glass filament.

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