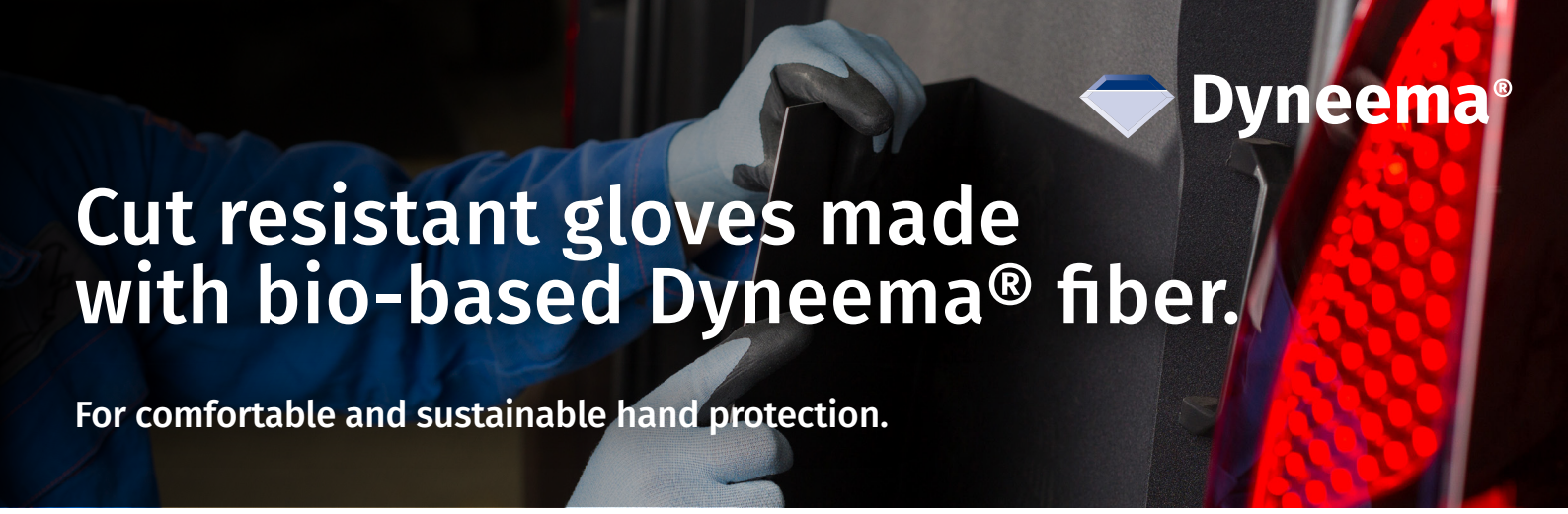

Dyneema®

Cut resistant gloves made with bio-based Dyneema® fiber.

For comfortable and sustainable hand protection.

3 reasons to choose gloves with bio-based Dyneema® fiber.

Protection

Up to 3x the cut resistance of standard HMPE fiber, up to 40% thinner and 30% lighter than generic HMPE at the same cut protection level.

Comfort

The thinner advanced fibers in Dyneema® Diamond Technology radiate heat away from hands for all day comfort, without compromising cut protection.

Sustainable

Gloves made made with bio-based Dyneema® have a carbon footprint approximately 90% lower than than generic HMPE.

Carbon Footprint Comparison: Dyneema® outperforms all competing alternatives.

Equivalent CO_2 emissions per 10,000 pairs of gloves

Glove made with: Generic HMPE	Glove made with: Aramid	Glove made with: Dyneema® fiber	Glove made with: Bio-based Dyneema® fiber
19,000 kg	**17,000** kg	**7,300** kg	**2,800** kg
6.75x increase over bio-based Dyneema®	6x increase over bio-based Dyneema®	2.5x increase over bio-based Dyneema®	

Assessment is based on gloves designed for cut level 4 performance.

Carbon footprint reduction.

For every 10,000 pairs, gloves made with bio-based Dyneema®

Reduces	Compared to	Smartphones charged	Tree seedlings grown for 10 years
4.5 tonnes CO_2	Conventional Dyneema®	573 K	74
14.2 tonnes CO_2	Aramid	1.8 M	235
16.2 tonnes CO_2	Generic HMPE	2 M	268

Carbon footprint comparisons have been calculated with DSM internal Life Cycle Assessment using publicly available information about other materials.

From the trees to bio-based Dyneema®, the mass balance approach explained.

DSM has taken the next major step in its sustainability journey by introducing the first ever bio-based ultra-high molecular weight polyethylene fiber (branded as Dyneema®) and further reducing its reliance on fossil fuel based resources. Ethylene is the primary raw material used to manufacture Dyneema® fibers, and is the feedstock that will be transitioned from conventional to a renewable source via mass balancing.

For more information go to **www.dyneema.com/biobased**.

NUTRITION · HEALTH · SUSTAINABLE LIVING

DSM
BRIGHT SCIENCE. BRIGHTER LIVING.