

Mooring lines made with bio-based Dyneema® fiber.

For safe, reliable and sustainable mooring operations.

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



Dyneema® SK78 is engineered to overcome the main failure mechanisms of a fiber rope.



Dyneema[®] SK78 fiber offer the highest reliability from day one onwards and a superior service life compared to other HMPE.



For every 100 meters, mooring lines made with bio-based Dyneema® have a carbon footprint that's more than 1800 kgs CO₂ less than generic HMPE.

Dyneema® outperforms all competing alternatives.

CO₂ equivalent emissions cradle to gate per 100 meter mooring line (44 mm)



Carbon footprint reduction.





| | Reduces | Compared to | | Smartphones charged | Tree seedlings grown for 10 years |
|---|------------------------------------|--------------------------|---|------------------------|--------------------------------------|
| Every 100 meters of mooring lines made with bio-based Dyneema® | 230 kg CO2 | Conventional Dyneema® | | 29 K | 4 |
| | 1,000 kg CO2 | Steel wire rope | € | 128 K | 17 |
| | 1,450 kg CO ₂ | Polyester | ₿ | 184 K | 24 |
| | 1,830 kg CO ₂ | Generic HMPE | € | 233 K | 30 |
| | 2,870 kg CO ₂ | Nylon | € | 366 K | 48 |

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.



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