

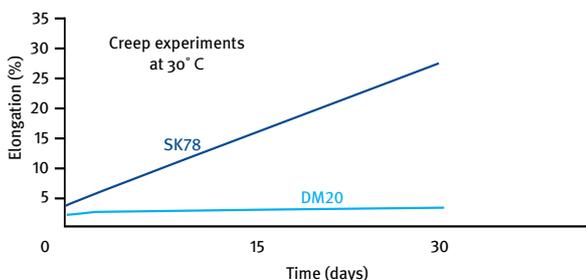
# Dyneema® Max Technology

The new Dyneema® Max Technology maximizes the scope of the world's strongest fiber. DSM is pioneering the use of high performance synthetic rope in permanently loaded applications like deepwater production moorings.

Designed specifically for mooring production facilities in deep waters, DSM's new 'ultra high strength at low weight' Dyneema® DM20 fiber delivers unrivalled rope strength, stiffness, durability and longevity. Dyneema® Max Technology outperforms every other mooring rope on the market, surpassing industry standards for deepwater permanent moorings. Coupled with its unique properties and the array of acknowledged benefits that these convey, Dyneema® Max Technology represents a smart investment as developments move into ever deeper and more challenging offshore environments.

## Unique Properties

Laboratory tests demonstrate that ropes made from DM20 fiber retain the property characteristics of Dyneema®, even under long-term high tensions. Critical behavioral qualities, such as high static strength and stiffness, exceptional abrasion, fatigue and creep resistance enable a smaller, lighter rope to deliver improved performance and operational benefits.



Measured elongation on a 29mm rope for a period of 30 days (Ifremer France), demonstrating the step change in creep performance between SK78 and DM20

Dyneema® Max Technology performs significantly better than SK 78 on

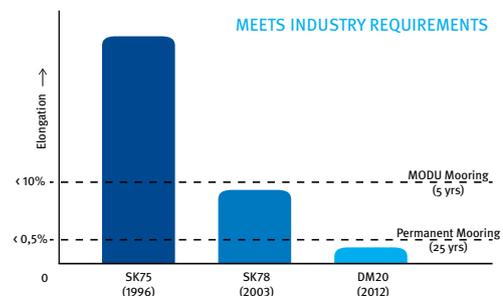
creep and thus is another step change versus all other HMPE. At the same time it keeps the good properties of Dyneema® fiber, which are appreciated by many users. The breakthrough product now offers all the benefits of ropes made with Dyneema® also to the markets of permanently loaded applications, one of them being offshore production mooring.

## Acknowledged Benefits

The unique properties of Dyneema® Max Technology offer benefits across the planning, system design, logistics, hook-up and installation stages of offshore mooring ropes. They guarantee not just maximum strength over a maximum lifetime, but improved handling and workforce safety.

Thanks to its phenomenal strength-to-weight ratio and small diameter, far more rope can now be transported and stored on vessels. Longer ropes, fewer trips and the opportunity to choose from more vessels of opportunity deliver even more operational cost savings.

Mooring lines made with Dyneema® present opportunities for safer, more efficient and ultimately more cost-effective deepwater operations.



Rope made with DM20 meets the industry requirement of maximum 0,5% elongation in 25 years.

## DSM Dyneema

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