When tested at room temperature, both aramid and HMPE mooring lines perform well. But at higher temperatures, the strength of aramid mooring lines stays intact where HMPE shows reduction in strength.

It’s a myth the whole world is 21°C (70F)

Many mooring lines are only tested in “perfect” laboratory conditions, assuming the whole world is 21°C (70F) with an occasional drop of rain. And that’s a myth.

Dynamic heat development

When a rope is moving during an application, the temperature inside the rope increases. Basically one can say that the thicker the rope the hotter its core becomes.

What exactly happens at the core of mooring lines when the temperature rises? Check out the video.