

# Improving fire-resistant booms

- Testing new materials for improving present booms

SINTEF offers solutions to improve the protection of fragile coastal areas from oil spill accidents. In the event of an oil spill in harsh environments with low temperatures, high seas and a vulnerable wild life it is vital to collect the oil before it reaches the shore lines. **In-situ burning (ISB)** is one of several options. Earlier field experiments and real cases (e.g. the Deep water Horizon incident) has shown that ISB can be effective to reduce the amount of oil on the sea surface. To increase the effectiveness, containing the oil in fire-resistant booms is usually necessary.



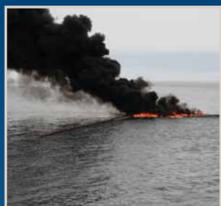
## Main objective:

- Development of new generation of fire resistant booms
- Easy to handle during deployment, recovery and storage
- Extended capability for use on high sea as compared to conventional fire-booms (limited to harbours, fjords and sheltered waters)
- Extended life time, with increased numbers/cycles of In-situ burnings



## We offer:

- Design, construction and testing of new and innovative solutions/materials
- Testing of new oil and fire exposure-safe materials
- Hazard and consequence analyses with regards to oil spill in-situ burning (ISB)
  - Safety aspects, Toxic gasses, Ignition challenges (weathered oils, wind/wave conditions etc.)
- Fire safety consultancy and large scale fire testing



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