



## The CUI Problem



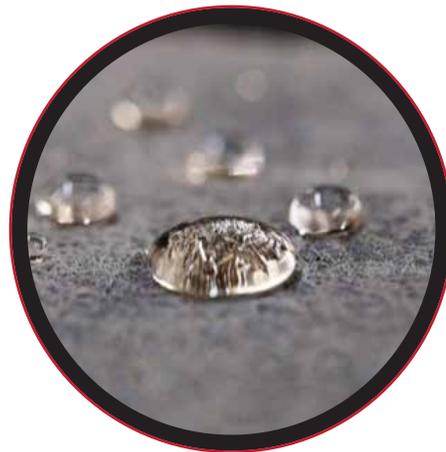
Insulation for thermal conservation in the oil and gas industry is one of its most important needs and it is most expensive problem.

Corrosion Under Insulation (CUI) is such a serious risk to equipment integrity that this problem has spawned its own "industry" of research and development and protective coatings technology advancement.

## The HFB Solution

For four decades, a solution to the CUI Problem has been the use of a water repellent insulation called expanded perlite, which is molded into rigid shapes like most other traditional industrial insulation.

However, an innovative concept was introduced a decade ago – a water-repellent, blanket-style product – flexible, unbreakable, and re-usable -- known as "aerogel blanket" – an aerogel-impregnated hydrophobic flexible blanket (HFB).



### HFB allows for significant initial cost savings and reduced cost of ownership

- Damage tolerant (unbreakable)
- Reduced cost of handling and installation vs. hundreds of thousands of rigid, size-specific pieces
- 5x reduction of storage footprint
- One-size-fits-all (inventory logistics)
- Reuseable
- Reduced thickness requirement with space and weight reduction
- Significantly enhanced thermal conductivity
- Water repellency to higher temperature

## Super Mat The New, No-dust Hydrophobic Blanket Solution



- ✓ **Super Mat** supercharges most of HFB's benefits and adds more advantages.
- ✓ **Super Mat** has enhanced hydrophobic properties, very good thermal and acoustic properties, with nil dust at a significantly reduced cost

- Significantly reduced purchase price vs. aerogel blanket
- Nil dust or skin-drying discomfort
- Hydrophobic throughout its thickness, up to 315°C (600°F) continuous
- Achieves installation efficiencies and mechanical properties similar to aerogel blanket
- Thermal equivalence: 16mm Super Mat = 10mm Pyrogel XTE
- Available in 8mm, 16mm, 20 mm, and 24mm thicknesses
- Every fiber of the blanket coated with chemical-and temperature-resistant PTFE  
Also available with integrated jacket consisting of 1 mm silicone coating
- Available in moldable version
- Suitable for multiple industrial applications



Available in  
8mm, 16mm, 20mm, and 24mm  
thicknesses



Fire resistant



Silicone coated version available  
(Super Mat STC)

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