Vacuum insulated double wall tank system for liquefied hydrogen carriers

Product Description
World’s first liquefied hydrogen tank for marine transportation, mounted on the liquefied hydrogen carrier “Suiso Frontier”
Tank Capacity: 1,250 m³

Features
- Double wall structure consisting of inner vessel and outer shell
- Austenitic stainless steel suitable for cryogenic and hydrogen environments is adopted
- GFRP* with low thermal conductivity is used for inner saddle
- Pressure accumulation tank type allows transport without emission of boil-off gas
- A mechanism to absorb the relative displacement due to a temperature difference of 300°C between inner and outer

*GFRP: Glass Fiber Reinforced Plastic

Insulation performance highly enhanced
Heat input drastically reduced by vacuum insulation. Cargo evaporation reduced to 1/10 compared with conventional liquefied gas carrier.

Just one-tenth!