

ALKEGEN APPLICATION STORY



Product Solution: Alkegen's CryoTherm® and double aluminized polyester film

Industry: Industrial manufacturing – Science and Technology

Application: Cryogenic Insulation for Helium transfer lines

Location: France

Air Liquide

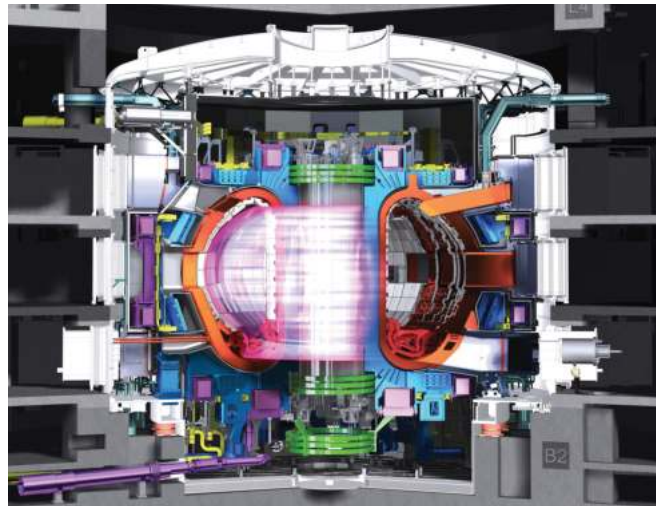
Air Liquide is a world leader in gases, technologies and services for Industry and Health. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

BUSINESS CHALLENGE

ITER project – an international project to build an experimental reactor (or tokamak) which is exploring the parameters of fusion. The new cryogenic lines designed and manufactured by Air Liquide for ITER are one vital component of the project's cryogenic production system. These lines will transport helium at extremely low temperatures close to absolute zero in some cases (-269°C). The fabrication of these lines requires the use of high tech processes and sophisticated design intended to link up the cryogenic plant to the tokamak. The cryogenic lines designed by Air Liquide represent a 1.6km network that will distribute the cold power needed to run various ITER equipment.

BENEFITS

Chosen for high performance, high quality and consistent, stable supply, Alkegen cryogenic insulation products provide one of the most efficient thermal protection solutions for liquefied gases. In the ITER project, storage and transfer of these liquefied gases are essential, and Alkegen's products prevent evaporation loss that could occur with a lesser quality insulation.



Credit © ITER Organization, <http://www.iter.org/>

SOLUTION

We used our technical expertise and reputation as a global leader in cryogenic insulation, as well as our prior partnership with Air Liquide on cryogenic lines for CERN to collaborate and identify the best solution that offers critical thermal efficiency for the cryogenic lines for transferring super cooled Helium.

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