Certificate No: LR25312882SF
Issue Date: 11/03/2025
Expiry Date: 10/03/2030

Certificate Of Cryogenic & Fire Approval

This is to certify that the product(s) detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations for use on offshore units classed with Lloyd's Register, and for use on offshore units and onshore facilities when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	**ASPEN AEROGELS**
Address	30 FORBES ROAD, BUILDING B, Northbourough, Massachusetts, 01532, United States
Type	Cryogenic (Jet Release) and Jet Fire Resisting Protection Systems
Description	Steel protected with a “Pyrogel® XTF” Cryogenic (Jet Release) and Jet Fire Resisting Protection System, for cryogenic (jet release) exposure for up to 65 minutes followed by jet fire exposure for up to 60 minutes
Trade Name	Pyrogel® XTF
Specified Standard	Testing generally meets the requirements of: ISO 20088-3:2018 "Determination of the resistance to Cryogenic Spillage of Insulation Materials – Part 3: Jet Release"; ISO 22899-1:2007 "Determination of the resistance to Jet Fires of Passive Fire Protection Materials – Part 1: General Requirements"

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

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Keith Taylor

Process & Technical Safety Team Lead’ to
Lloyd's Register EMEA
A member of the Lloyd's Register group

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