

Durability of High-Performance Carbon-Fibre-Reinforced Composites for Hydrogen-Powered Aircraft

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– Started in May 2023



Objective

- *Statistical determination of the residual strength, following low-temperature fatigue cycling simulating the operating conditions of a hydrogen storage tank, of a latest-generation composite material reinforced with ultra-high-performance carbon fibres in the form of ring coupons*

Approach

- *Assessment of the carbon-fibre-reinforced material's tensile performance using split-disc tests*
- *Investigation of the impact of low temperature on the mechanical behaviour of the studied material*

