



SAERTEX LEO® COATED FABRIC NON-CRIMP FABRIC WITH INTEGRATED FIRE PROTECTION

SAERTEX LEO® COATED FABRIC has the highest level of fire resistance integrated in the fabric. This reinforcement is equipped with an active fire retardant covering layer. This permits the material to be manufactured in a single production process using vacuum infusion. In case of fire, the protective layer starts to pyrolyse and forms a heat insulation layer that protects the laminate. LEO® COATED FABRIC is available in different weight classes based on glass and carbon fabrics.

1 Next-level fire protection for FRP composites

Complies with the strictest fire safety standards // Railway applications: HL3 acc. to EN 45545-2 (-3) // Ship-building applications: IMO FTP Code 2010 Part 2, 3, 5 and 10.

2 Lightweight: up to 40% weight savings

Excellent tensile and bending properties // Low material thickness // Up to 5x greater rigidity or 40% lighter than aluminium // Very high energy efficiency.

3 Easy to process with standard resin systems

Thanks to the integrated fire protective layer and the low proportion of binders // Both in vinyl ester, polyester and epoxy.

4 50% time savings thanks to integrated fire protective layer

The material is processed like a standard fabric using vacuum infusion. This eliminates the usual manufacturing process required to apply a fire protective coating.

5 Higher & constant component quality

Standardised and reproducible material layer thickness thanks to the controlled machine application of the fire retardant material onto the fabric.

6 Tried and tested standard make-up

We support your material qualification testing by supplying you with our extensive collection of test data.

APPLICATION EXAMPLES RAILWAY VEHICLES

Fire safety testing to comply with EN 45545-2,
Testing according to ISO 5660-1



In case of fire, the protective layer starts to pyrolyse and forms a heat insulation layer that protects the laminate.

- Meets HL3
- MARHE without paint <20, MARHE with paint 27
- Greater weather resistance since there is no intumescent system based on hygroscopic components
- Suitable for outdoor use

Matches EN 45545-2 laminate requirements
(HL3 for R1, R7, R10 and R17)

APPLICATION EXAMPLES SHIPBUILDING

Maritime standard panel (TSD 500µm), tested acc.
to IMO FTP CODE

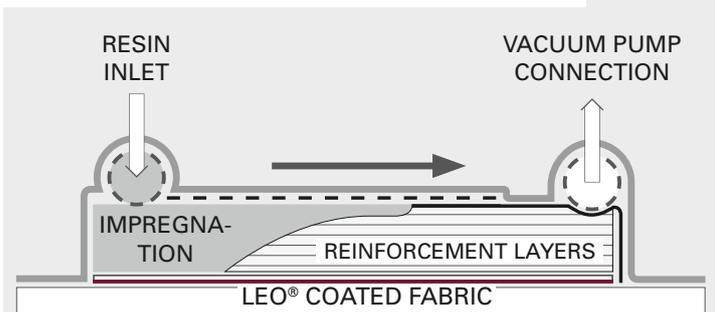


- 10 min flame treatment at 100 kW: no additional release of heat or smoke. IMO FTP Code 2010 Part 10
- Toxicity values of laminate panel significantly undershoot the permitted limits
- Low flame spread adjustable to specific levels
- Further test results on request

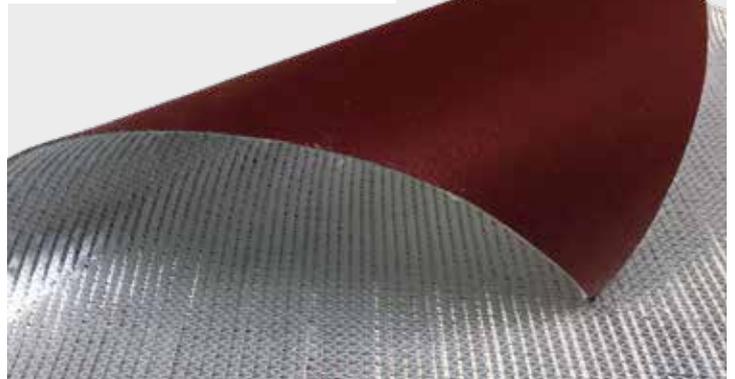


VACUUM INFUSION WITH LEO® COATED FABRIC

1. Insertion LEO® COATED FABRIC
 2. Inserting the reinforcement layers
 3. Vacuum infusion using standard resin systems
- No Gelcoat application required!



LEO® COATED FABRIC
with integrated fire protective layer



For application examples and further information, go to
www.saertex.com/leo

REINFORCING YOUR IDEAS