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**

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.

SAERTEX LEO®: Registered trademark (more information at: www.saertex.com)
APPLICATION EXAMPLES RAILWAY VEHICLES

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

APPLICATION EXAMPLES SHIPBUILDING

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!

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