

*Protect your values.*



members of svt group

**AIK**



**FLAMPRO**

**ROLFKUHNGBH**



## Passive Fire Protection for the Aviation Industry

Safety at the Highest Level



## svt: Smart Solutions for All Your Needs

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svt Products GmbH is the global distribution centre of svt Group. By pooling the international sales activities of the Group's highly specialised manufacturers (comprised of svt, Rolf Kuhn, Flamro, Odice, Securo, AIK, DDL and TFSG), the company offers Europe's most extensive portfolio of certified products, systems and materials in passive fire protection. Backed by a wide range of renowned brands that are sold in over 60 countries across the globe, the team of svt Products GmbH works to protect what really matters: the lives of people, their property and all else they value. The company's portfolio of fire protection brands includes, to name but a few, FLAMRO®, FLEXILODICE®, PYRO-SAFE®, ROKU® and MORTON®. They are designed for use in the fields of building construction, industrial construction, infrastructure, energy, aviation, shipbuilding and offshore engineering, rolling stock, building components as well as batteries. The fire protection solutions sold by svt Products GmbH are quality-assured in the same way as all other svt products: They undergo thorough in-house research and development at both company and group level so that continuous product evolution is a matter of course.

**Excellence at a glance – the svt Group of Companies portrayed on film.**



### Aviation Industry

Fire protection for all types of aircraft and air traffic environments



### Battery Applications

Fire protection that keeps pace with a fast-growing (e-mobility) market



### Rolling Stock

High-performance fire protection at any speed



### Ships & Offshore

Fire protection systems for the specific requirements of ships and offshore facilities



*»Preventive and passive fire protection has been our field of expertise for over fifty years. We deliver high-performing products and tailor-made services that protect buildings and vehicles alike – whether on land, on water or in the air.«*

*Dr. Jens Reiners, CEO svt Group of Companies*

## Smart Fire Protection Solutions for Peace of Mind on Board

“To design a flying machine is nothing. To build one is something. But to fly is everything.” With these words, French aviation pioneer Ferdinand Ferber hailed human victory over gravity in the late 19th century. Much has changed since then: Aircraft have matured into highly complex, network-based systems that are developed and produced using sophisticated methods, standards and instruments. Also in terms of safety on board, because although flying – as the ultimate goal of all development and design work – may be “everything”, this everything is just nothing without safety by design right from the start! This holds particularly true for fire safety on board – a vital domain where protection needs and requirements follow close on the heels of technological progress, just like in other areas of the world we live in.

Thanks to intensive research and development efforts, today’s comprehensive fire safety concepts provide for unprecedented levels of protection: They include not only sensitive, well-networked fire alarm systems, but also state-of-the-art passive fire protection measures – in the form of auto-responsive materials, products and systems that put a stop to the spread of fire long before things get too hot to handle. In enclosed spaces such as aircraft, this aspect is of paramount importance, as every minute counts in the event of a fire so as to maintain safety on board until the aircraft has landed and everyone has exited it in an orderly manner.

### Building Components

Fire protection materials for doors, glazing units and façades



### Renewable Energies

Protection for buildings and plant engineering systems against fire, gas, electricity, liquids, etc.



### Energy Industry

Seamless fire protection for facilities and systems



### Construction Projects

Complete solutions for building services and through-penetration seals







## Passive Fire Protection: Lightweight Design – Heavy-Duty Resilience

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The lighter a vehicle and its components, the more efficient (and environmentally friendly) its operation – this also applies to aircraft. Yet lightness should never cause safety to fall by the wayside! Therefore, we have developed an innovative fire protection material that „has it all“ in every way: SAERTEX LEO® COATED FABRIC – a glass fibre fabric with an integrated fire protection coating that is engineered to transform into a voluminous foam in the event of a fire so as to effectively prevent the passage of fire and smoke (intumescent effect). The glass fibre fabric and the fire protection coating form an inseparable whole by design so that no pre-treatment of the material is required at the installation facility: SAERTEX LEO® COATED FABRIC is ready for use on the spot. In addition, the material is particularly light and flexible in use thanks to its superior deformation properties and thus excellent formability. And, not to forget, the material is certified to meet the highest fire protection requirements. SAERTEX LEO® COATED FABRIC thus offers unparalleled effectiveness and efficiency along the way!

### Future-Proof Safety for Alternative Drive Solutions

In addition to batteries, hydrogen-based fuel cell technology is considered a promising candidate in the race of alternative drive solutions. As hydrogen tanks pose specific risks that need to be reliably managed and controlled, we have developed dedicated fire protection solutions with “built-in” long-term effect(iveness) – for example, PYRO-SAFE® B CX 2200, a two-component polyurethane-based coating material. Would you like to know more? We will be pleased to provide further information.



Fire protection solutions  
for e-mobility in a **video**.



## Battery Safety – in the Air and on the Ground

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Technological progress also drives evolution in the aviation industry: New mobility concepts are entering the air-space, and new propulsion energies (e. g. from batteries with ever greater storage capacity) provide an innovative push towards the future. But the great new world also harbours risks: Battery systems with a high energy density can develop temperatures of over 1,300 °C, thus catching fire “on the fly” and eventually exploding as a result of thermal runaway, while releasing substances hazardous to health and the environment. As flames and smoke gases tend to spread quickly and intensely in enclosed spaces like aircraft, effective fire incident prevention is key to ensuring responsibility-driven safety management in aviation.

In-house research and development activities at svt are backed by extensive testing options (e. g. several state-of-the-art fire test furnaces), plus we work with a consistent focus on client needs and requirements so that we have earned an excellent name for ourselves in the industry. We are ideally poised for the future – and that future is ready for take-off!

Would you like to find out more about battery applications and reliable protection solutions?  
Then please read on.



Watch our lithium battery  
fire test in a **video**.



# Coatings

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Fire protection coatings play an essential role in modern safety concepts. They are usually easy to apply and provide consistent protection. All coatings from svt are officially certified and user-friendly; they have been proven to increase fire resistance and to consistently prevent the spread of fire and smoke – for maximum safety in the event of a fire.

## **PYRO-SAFE® DG-HF**

A VOC-free, water based dispersion with organic and inorganic fillers specially developed for aviation. The coating is flexible and elastic, with excellent adhesion to the substrate.

- Aviation
- General industrial applications



## **PYRO-SAFE® DG-AAF**

A further development of the certified PYRO-SAFE® DG-HF fire protection coating. By using finely ground flame retardants, very smooth and visually appealing paint surfaces can be achieved. Furthermore, the coating remains flexible and elastic down to -20 °C, with excellent adhesion to the substrate.

- Aviation
- General industrial applications



# Composite Material

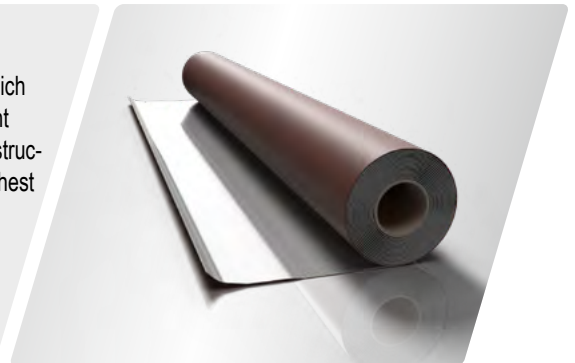
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Today's world of lightweight construction cannot be imagined without composites – this also applies in the field of passive fire protection. To this end, svt has created a special, versatile and flexible composite material that combines minimum weight and maximum protective effect.

## **SAERTEX LEO® COATED FABRIC**

A glass fibre fabric with an integrated intumescent fire protection coating, which forms an insulating layer in the event of a fire. This combination of lightweight construction with integrated fire protection can be incorporated into any construction of a monolithic or sandwich composite structure in order to meet the highest fire protection requirements.

- Aviation
- Battery safety
- Rolling stock





# Seamless Fire Protection – Designed by Us, Made for You!

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Our passive fire protection solutions are always tailor-made because they spring from our close and trusting cooperation with each client. This again means that we also welcome new challenges at any time! Tell us about your fire protection needs, and together we will find your spot-on solution.

This and other high-flying companies ensure continuous safety from take-off to landing with our certified fire protection solutions on board:

## BOMBARDIER LEAR JET



Take a look at all the references  
on our **homepage**.



## A Safe Bet for High Flyers: Fire Protection for the Aviation Industry

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Whether it's large aircraft, small aircraft or aircraft with vertical take-off and landing capability – our fire protection solutions will help you fly safe at all times:



**Passenger  
planes**



**Cargo  
planes**



**Learjets**



**Helicopters**



**Drones**



**Military  
planes**



**eVTOL/  
air taxis**

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