



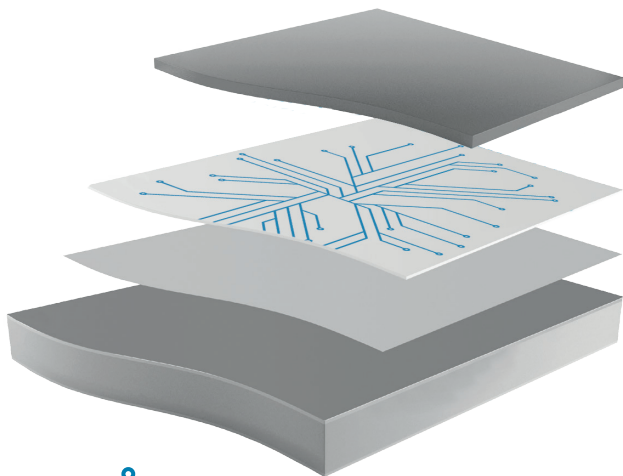
tfs

tailormade **functional** steel

Benefits

Smart like steel

tfs stands for tailormade functional steel, where conductor tracks are incorporated into a special coating layer. This makes steel an intelligent material that can be used in a wide variety of new applications. **tfs technology forms the basis for your product innovation.**



Functions

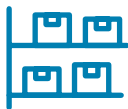


Heating function

Heat surfaces up to a temperature of 100 degrees Celsius—thanks to integrated tfs heating conductor tracks.

Load detection

Help your customers keep everything in perspective: With tfs load detection, you always know when a shelf needs to be refilled.



Operating elements

Operation made easy: With tfs, a surface of any size becomes a touch element with a flat, flush and minimalistic design.



Connecting

Cable clutter is a thing of the past: With tfs, conductor tracks can be integrated into the steel surface for switch signals and low power transfer.

Monitoring

A solid foundation for structural health/condition monitoring: With tfs you can detect changes and component damage early on.



Drop detection

Good riddance to wetness—for those who want no water: Leaks and condensation can be detected as soon as they occur with tfs drop detection.



Advantages

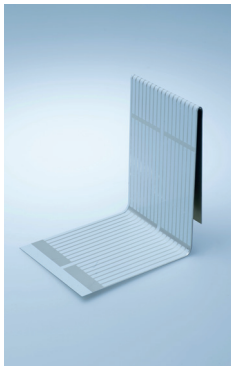


Smart steel

Behind tfs stands voestalpine, a leading global steel and technology group. The digitization of steel as a material has become possible for the first time with tfs technology, allowing data to be generated directly on the steel surface and to be processed in real time. Steel is becoming smart.

Integration of functions

The layered structure of tfs is a fundamental advantage: The function or sensor technology is directly integrated into the coating layer. This saves space and can even save steps in the production process. It also takes advantage of the dimensional stability of the base material.






Freedom of design

Tailormade is the magic word here. Restrictions in product design are a thing of the past with tfs. The conductor tracks are individually adapted to each individual product and application. The invisible functions offer completely new possibilities in design.



Any configuration and size is possible, from a few square millimeters to the maximum sheet size of 1250 x 2500 mm. We will be happy to work with you to find the best possible solution for your individual application.

**Intelligent, conductive material solutions
for a connected world.**





Become a part of the innovation!

Let us rethink your product. tfs technology will make your product even smarter and more functional. Share your ideas with us, and we will be happy to work together with you to develop the best solution in a co-engineering process.

Innovation needed? tfs found!

Contact



Marlene Brunnthaller

Sales Pioneer

Marlene.Brunnthaller@voestalpine.com

+43 664 615 60 22



Patrick Oberndorfer

Commercial Head

patrick.oberndorfer@voestalpine.com

+43 664 88 32 26 04



voestalpine Steel Division
voestalpine-Straße 3
4020 Linz, Austria
T. +43 50304 15-4212
www.voestalpine.com/tfs/en

voestalpine
ONE STEP AHEAD.