

# Super-TIX® 10CU Ultimate

## Product Datasheet

## The ultimate exhaust alloy

Super-TIX® 10CU Ultimate is a titanium alloy designed specifically for high performance motorsport exhaust systems

The alloy is a specially developed titanium offering a combination of high temperature strength with good formability at room temperature.

Available in both sheet and welded tube, the introduction of copper as an additional alloying element results in solid solution hardening and low oxygen content. This addition doubles the high temperature strength when compared with pure titanium.

Super-Tix® 10CU also offers improved corrosion resistance when compared with stainless steel.



### In the real world..

A good example of how Super-Tix® 10CU titanium can improve performance can be found in Nissan's GT-R sports car.

The alloy is employed in the muffler of the exhaust system. Its use reduces the overall mass by 5.5 Kg when compared to the original stainless steel version whilst offering double the high temperature strength of pure titanium.

### Material Benefits

- High temperature strength
- Good formability at room temperature
- Effective weight reduction solution
- Improved tensile strength when compared to CP Grade 2 at room temperature
- Available in both sheet and welded tube

## About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high performance engineering materials to the global motorsport sector. We are supply partners in a range of specialist motorsport markets including Formula 1, Formula E, NASCAR, MOTO GP, WEC & WRC.