

HT Composite S-950



General

HT Composite S-950 is an oxide fiber ceramic matrix composite, composed out of high-temperature-resistant SiO_2 fabrics woven out of endless filament yarns, a SiO_2 binding system and SiO_2 powders. This unique composite material provides excellent properties for applications in the non-ferro industry.

HT Composite S-950 is also available in a non-wetting version

HT Composite S-950 is a high temperature resistance (continuous $< 950^\circ\text{C}$), low thermal mass, thermal shock resistant and has excellent non-wetting abilities.

HT Composite S-950 can replace thin-walled, thermally high stressed metal structures and can be used in numerous applications.

The manufacturing of **HT Composite S-950** is done with similar laminating processes known from fibre-reinforced plastics. With comparable forms, processes and special technical equipment it is possible to produce plates, tubes and complex, thin-walled lightweight structures. On customers' request the components can be coated with different Boron Nitride qualities to achieve a better protection against molten aluminum.

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HT Composite S-950



HT Composite S-950 is damage tolerant, corrosion resistant and thin-walled. It is known as the only “flexible ceramic”.

Typical application:

- Protective tubes and riser tubes
- Launderers
- Feeder boxes and casting pans
- Plump sword

**HT Composite S-950 ;
an innovative material for low thermal mass applications in the
Non-Ferrous Industry!**



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Advantages HT Composite S-950:

- High temperature resistant (continuous < 950°C)
- Thermal shock resistant
- Corrosion resistant
- Thin walled
- Can be used in numerous applications