

## Weldable Tungsten Carbide Wear Protection

Ferobide is a durable composite wear protection material. It yields a weldable tungsten carbide material, using the highest quality of very hard tungsten carbide particles.

Tungsten carbide particles are both chemically and mechanically bound, thus increasing the strength of the material.

Installed via welding, Ferobide exhibits abrasion resistance many times higher than that of traditional wear protection materials. This is coupled with high impact resistance and ability to cut plates to size.

Ferobide is made as standard as flat tiles either 4 mm, 6 mm, or 8 mm thick. Plates are 8x40 mm, 15x40 mm, 25x60 mm, 40x40 mm in size.

The proprietary formulation means that Ferobide is resistant to corrosive environments, and every batch of Ferobide is subject to our thorough QC regime.

The formulation is wholly non-hazardous, meaning Ferobide need not be classified as hazardous.



PROPERTY	UNITS	4 mm thick	6 mm thick
<b>Compressive Strength</b>	MPa	1,500	2,000
<b>Flexural Strength</b>	MPa	600	650
<b>Tensile Strength</b>	MPa	150	200
<b>Proof Stress</b> (typical value)	MPa	130	180
<b>Weld Strength</b>	MPa	200	220
<b>Thermal Conductivity</b> (typical value)	W / mK	50	35
<b>Expansion Coefficient</b> (typical value)	10 <sup>-6</sup> / K	10	11
<b>Hardness</b>	HRC	75	65

The information contained in this data sheet is presented in good faith. They are typical test results tested generally in accordance with BS 2782 and ASTM test methods and should not be used for specifications. **TENMAT** does not warrant the conformity of its materials to the listed properties or their suitability for any particular purpose. For further information please contact our Technical Sales Department on +44 161 872 2181.