

FCW60WC®

Cored welding wire

The **BMI FCW60WC® hardfacing cored wire** is a flux-core wire composed of powders, encased in a metallic sheath, designed for **welding hardfacing under Ar+CO₂ gas shielding**.

This **cored wire**, with a **high tungsten carbide content (50 to 60% depending on the diameter)**, has a specially engineered chemical composition to provide **excellent abrasion resistance** in the deposited material.

APPLICATIONS

The **Ni-Cr-B-Si matrix**, with **high toughness**, combined with a **high tungsten carbide content** (hardness of **2300 HV**), provides the deposit with **exceptional abrasion resistance**.

Additionally, the deposit offers **excellent corrosion resistance**.

Main applications : Drilling augers, crushers, parts for the clay industry, earthmoving equipment, rubber mixers, and, more generally, all components subjected to severe abrasion in the mining, steel, and public works sectors.

TYPICAL MECHANICAL PROPERTIES

Ni-Cr-B-Si Matrix	Tungsten Carbide
~ 500-600 HV	~ 2300HV

OPERATING CONDITIONS

Cored Wire Ø	1.6	2.4	2.8
Current (A) DC (+)	120-180	220-280	240-300

CONDITIONS OF USE

Select **high-strength base materials**. The welding surfaces must be **perfectly clean**, free from rust, oil, or any other contamination.

Use **low heat input** to prevent the fusion and degradation of tungsten carbides.

Welding should be performed **exclusively in the flat position**, with the possibility of applying **two layers while maintaining a low level of cracking**.

PACKAGING

15 Kg & 25 Kg Spools



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