

FCW600HB®

Cored welding wire

The BMI FCW600HB® hardfacing cored wire is a sealed, copper-coated tubular wire, designed for gas-shielded welding.

Its composition has been specially developed to provide an optimal balance between abrasion resistance, friction wear resistance, and impact resistance.

APPLICATIONS

The **BMI FCW600HB® cored wire** is a **medium chromium (Cr) and molybdenum (Mo) enriched alloy**, designed to produce a **fine-structured deposit**, offering **great versatility in wear protection applications**.

This wire can be used in **single or multiple layers** (up to **50 mm thickness**), without moisture absorption, ensuring **perfect wire feeding quality** and **unmatched weldability** in its alloy category. It provides an **average 20% higher deposition rate** compared to solid wires of similar composition.

The deposit can be **machined by grinding or finishing**.

This **cored wire** has been **specially developed for parts exposed to metal-to-metal friction wear**, as well as **low-stress abrasion, with or without significant impact**.

Main applications : *Manufacturing of high-performance composite parts, such as shear crushers, blade crushers, grinding and conveying components in the mineral industry, mixers, and dredging pumps.*

TYPICAL CHEMICAL COMPOSITION WELD METAL

C	Mn	Si	Cr	Mo
0.5	1.2	0.7	6	0.7

TYPICAL MECHANICAL PROPERTIES

Hardness 1st Layer	Hardness Multi-Layer
~ 550HB	~ 600HB

OPERATING CONDITIONS

Cored Wire Ø	1.2	1.6
Current (A)	110-300	130-350
Voltage (V)	17-30	17-32

PACKAGING

15 Kg Spools

Groupe BMI

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