

FCW63 ®

Cored welding wire

The **BMI FCW63® wire** is a **hardfacing cored wire**, composed of a flux-core powder encased in a metallic sheath, designed for **open-arc welding** (without gas shielding or slag).

Its **chemical composition** has been specially developed to provide **exceptional resistance to mineral abrasion**, while also withstanding **moderate impacts**.

APPLICATIONS

Thanks to its **high carbon (C) and chromium (Cr) content**, the deposited metal, composed of **chromium carbides**, provides **exceptional abrasion resistance**. Hardfaced parts with **BMI FCW63® cored wire** can offer **wear resistance up to 50 times greater** than conventional electrodes of the same hardness.

Suitable for **multi-layer applications**, BMI FCW63® ensures **smooth fusion, good metal spread, no slag formation, and a very even bead**. The formation of cracks in the deposited metal is **normal and does not affect service performance**. The deposit can be **machined by grinding or finishing**.

This cored wire has been **specifically developed for parts subjected to low to moderate impact while providing excellent abrasion resistance**.

Main applications : Design of high-performance composite parts, such as overlay plates, mineral grinding and conveying components, dredging pumps, mixers, and screen plates.

TYPICAL CHEMICAL COMPOSITION WELD METAL

C	Mn	Si	Cr
4.8	1.2	0.6	29

TYPICAL MECHANICAL PROPERTIES

Hardness 1st Layer	Hardness 2nd Layer
~ 58 HRC	~ 60-63 HRC

OPERATING CONDITIONS

Cored Wire Ø	1.6	2.4	2.8
Voltage (V)	25-32	28-32	28-32
Current (A)	150-250	200-300	280-380

PACKAGING

15 Kg & 25 Kg Spools

