

COR™FACE 163 MC

DESCRIPTION

COR™FACE 163 MC is a metal-cored, economical, wear-resistant alloy designed to combat abrasion and corrosion. It is a nickel-based alloy with 55 weight% tungsten carbide particles. This alloy work-hardens readily.

APPLICATIONS

163 MC is typically used for overlaying carbon, low-alloy, manganese, and stainless steels. The welded deposit is very corrosion resistant, which makes it suitable for use in the plastics industry. Other uses would include applications where toughness and wear resistance are required in or out of corrosive environments.

PROCEDURE

Hardfacing generally does not require any heat treatment. Preheat and post-heat according to the base metal requirements where necessary.

WELDING PARAMETERS

Size	Volts	Amps	Shielding Gas/Flux
MC-G 1/16"	20-23	210-250	100%Ar or 75%Ar-25%CO ₂

MECHANICAL PROPERTIES

Hardness: Matrix: 38-42 Rc (380-425 Knoop) as-welded
Matrix: 50-54 Rc (540-610 Knoop) work-hardened
WC Particles: 2600 Knoop (no Rc conversion available)

CLASSIFICATION

Nickel base hardfacing alloy