

DESCRIPTION

POSTALLOY® PS-10 is a tungsten carbide, nickel base hardfacing wire designed to resist severe abrasion but unlike traditional tungsten carbide wires, it absorbs more impact without fracturing. Because of the unique chemistry, Tungsten-Carbide-Nickel-Chromium-Silicon-Boron, it also has excellent resistance to erosive wear, frictional wear, corrosive wear, and maintains its hardness, even at temperatures of 1100°F (565°C). Weld deposits contain over 50% fully fused, pre-alloyed carbides.

The alloying elements in this wire produce a high hardness alloy that encapsulates and protects the carbide particles, reducing premature wear caused by erosion next to the carbide particles.

POSTALLOY® PS-10 has very good weldability and a very soft arc, this, in combination with the nickel matrix, reduces weld dilution and carbide dilution to produce a truly outstanding multi-wear wire.

SPECIFICATIONS

Wire Type: Metal-cored, Gas shielded, Slag free

Weld Deposit Properties:

Average Hardness: Matrix - 51 Rc

Tungsten carbide - 2400 HV (70 Rc+)

Deposit thickness: 2 layers - Maximum

Deposits cannot be flame cut

Weld deposits check crack

APPLICATIONS

- Processing Equipment
- Mixer blades
- Feed screws
- Coke crusher segments
- Oil and Gas Drilling
- Down Hole Tools
- Stabilizers
- Dredging Equipment
- Cutter heads
- Shredders
- Hammers
- Wear Rings
- Conveyor screws
- Mixer paddles
- Wear bars
- Wear plates

WELDING PARAMETERS (POLARITY - DC STRAIGHT)

Diameter	1/16"(1.6mm)	3/32"(2.4mm)	Optimum
Current <i>amps</i>	120-180		160
Voltage (DCSP) <i>volts</i>	19-23v		20v
Stickout <i>inch (mm)</i>	3/4"(19mm)		3/4" (19mm)
Gas Flow <i>cfh (l/min)</i>	30-40 (14-19 l/min)		35 (17 l/min)
Shielding Gas	75/25% - Argon/CO2		75/25% - Argon/CO2

PACKAGING

Diameter	1/16"(1.6mm)	3/32"(2.4mm)
25 Lb. Spools	Standard	NA
55 Lb. Coils	NA	Standard