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## PS-11W with **RCT™ Reactive Core Technology\*\***

Postalloy® TungGuard™ PS-11W with Reactive Core Technology™ (RCT) is a non-cracking nickel base hardfacing cored wire containing a special blend of tungsten carbides for extreme abrasion as well as corrosion. The matrix is resistant to acids, bases, lye and other corrosive media. This alloy can be applied crack-free with the proper welding procedures. The alloying elements in the wire produce a higher hardness weld deposit that encapsulates and protects the carbide particles, reducing the premature wear caused by erosion to the carbide particles. As a result it achieves a considerable service life improvement in extreme applications compared to PS-10 which it has replaced. The alloy has a low melting range and features good weldability with a smooth arc, reduces weld dilution and carbide dilution to produce a truly outstanding multi-wear wire. Use on low carbon mild and low alloy steels, stainless, nickel and cast iron.

## Specifications

### Product Type

Nickel base Tungsten Carbide Wire: Metal-cored, Gas-shielded  
Deposits are slag-free.

**\*\*RCT™ Reactive Core Technology** improves weldability and optimizes wear properties. Learn more.

### Weld Deposit Properties

Average Weld Deposit Hardness : 53-57Rc  
Average Hardness Tungsten carbide: 2300 - 2500 HV (70 Rc+)  
Deposit Thickness: 2 layers maximum  
Weld deposits cannot be flame-cut  
Can be applied crack-free with proper welding procedure  
Service temperature up to 1,000°F (538°C)

## Applications

Repairing and hardfacing ferritic and austenitic stainless steel tools in the Chemical and Food Industries.  
Mixer blades  
Tunnel boring machines  
Fan Blades  
Screw Conveyors  
Brick and clay augers  
Developed for application to downhole tools in the deep oil and gas drilling industry, such as stabilizers.  
Brick and clay brick augers

Ash Handling systems  
Sinter plant wear parts  
Slag breakers

## Postalloy® TungGuard™ PS-11W Welding Parameters

Current: DC Electrode Positive

Diameter	Amps	Volts	Stick Out
1/16" (1.6mm)	160-180	21-23	1/2" (12.5mm)

Welding Procedure

Preferred Shielding Gas: 100% Argon

It is highly recommended that the gun and cable length be 8 to 10 feet.

Knurled or cogged drive rolls are recommended for use with this wire.

## Packaging Options

Diameter	Standard Packaging
1/16" (1.6mm)	25 lb spool

