

Postalloy® PS-98

Data Sheet



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A Tungsten Carbide Matrix Wire for Extreme Abrasion & Light Impact

Description

Postalloy® PS-98 is a metal cored, triple deoxidized Iron based wire, alloyed with Chromium and Tungsten Carbide. This product is primarily used as a matrix alloy for the Tungsten Carbide embedding process. Unlike soft mild steel welding wires, which are commonly used in the embedding process, the microstructure of

Postalloy® PS-98 is designed to encapsulate and protect the Tungsten Carbide particles from premature erosion. Many of the common embedding wires are solid which require high voltage and amperage settings to achieve a fluid puddle. Postalloy® PS-98 is metal cored and develops a spray transfer at very low current levels. This combined with its unique alloy content forms a very fluid weld

puddle. This promotes an even dispersion of Tungsten Carbide particles within the weld puddle. These unique properties make it an ideal choice when used with the Tungsten Carbide embedding process.

Typical Applications:

Grader blades, bulldozer blades, excavator parts, dredge cutter teeth, tunneling equipment, auger teeth, wood chippers, hammers for recycling, wood-waste, biomass, landscaping landfill, land clearing, composting, asphalt shingle recycling, waste processing systems, and tub grinders.



Hardness impression is a PS-98 Matrix
58Rc



Hardness impression in a Tungsten Carbide Particle
70Rc

Welding Parameters & Packaging

	.045" (1.2mm)	1/16" (1.6mm)
Diameter	.045" (1.2mm)	1/16" (1.6mm)
Polarity	DC Reverse	DC Reverse
Current <i>amps</i>	170-220	180-250
Wire Speed	180-210	160-190
Voltage (DCRP) <i>volts</i>	26-28	27-29
Gas Shielding (98% Argon / 2% Oxygen)	35 <i>cfh</i>	35 <i>cfh</i>
Stickout	1 - 1/4" (25-32mm)	1 - 1/4" (25-32mm)
Hardness (1 Layer)	55 to 60Rc	55 to 60Rc
Deposits are slag free		



Packaging

25 lb. spools	Standard	Standard
50 lb. spools	Standard	Standard

