

PT-MAT[™] FeWC

General Information :

PT-MAT[™] FeWC is a cored wire filled with angular cast tungsten carbide particles in a hard Fe based matrix. PT-MAT[™] FeWC is generally used as a hard facing when the most severe abrasion conditions are expected. The coating contains solid particles of macro-crystalline tungsten carbide (50-60% depending on diameter). The matrix is specially formulated to generate low heat input welding operation and allow the coating to be repaired on itself which makes it an ideal candidate for parts subjected to repeated wear cycles such as oil drilling tools, conveying screws, pump parts, mining and dredging equipment.

Applications :

PT-MAT[™] FeWC is used extensively for severe wear applications in oil drilling, mining, cement, power generation, pulp and paper and other industrial processes.

Hardness (outside dilution):

Matrix : 50 HRc. macro-crystalline tungsten carbide : 1700-2200 HV_{0.1}

Welding Parameters.

Wire diameter mm	Wire diameter inch	WC %	Voltage (V)	Amperage (A)
1.6	1/16	55	19-22	130-170
	Other diameters available on request			

Packaging:

Spools "S" = 15 kg (33lbs) Other packaging available on request (larges spools, drums etc...)

Plasma Technology Automation & Materials