



## PT-MAT™ NIFD-TS

### General Information :

PT-MAT™ NIFD-TS is a cored wire filled with angular cast tungsten carbide particles in a NiBSi matrix.

PT-MAT™ NIFD-TS has been specially designed for thermal spray applications when the most severe abrasion conditions are expected. The coating also have a good corrosion resistance behavior.

The coating contains solid particles of tungsten carbide (50-60% depending on diameter) in a low melting temperature Ni-B-Si alloy.

This matrix is specially formulated to generate low heat input and minimize the carbide degradation during spraying.

### Applications :

PT-MAT™ NIFD is used extensively for severe wear applications in industrial processing equipments such as fan blades, cyclones, pulp and paper, mining, cement, power generation...

### Hardness (outside dilution):

Matrix : 45-52 HRC.

cast tungsten carbide (FTC) : 2100-2400 HV<sub>0.1</sub>

### Spraying Parameters.

Wire diameter mm	Wire diameter inch	FTC %	Voltage (V)	Amperage (A)
1.2	0.045	40	24-30	250-290
1.6	1/16	55	24-30	250-290
2.0	5/64	59	24-30	250-290

Distance : 4"-6" (100-150 mm)

Spray pressure :35-45 PSI

### Packaging:

Spools "S" = (25lbs) or (33lbs)

Other packaging available on request (larges spools, drums etc...)

