



PT-MAT™ Ni 51 PTA.

General Information :

PT-MAT™ Ni 51 PTA is a Ni,B,Si based metal powder used for Hard facing or as a buffer layer for coating with a higher hardness. The alloy shows good corrosion resistance.

Applications :

PT-MAT™ Ni 51 PTA is applied through plasma powder surfacing or laser cladding on low alloy to high alloy steel. The powder exhibits excellent weld ability and a very fluid puddle. The powder is a very good candidate to add tungsten carbide for excellent wear resistant hard facing. The medium range hardness makes the coating suitable for machining.

Physical properties:

Hardness (outside dilution) : 48-53 HRc

Density : 8.2 g/cm³ / 0.30 lb/in³

Apparent density (Hall): 4.6 g/cm³

Flow rate (Hall) :14-17 seconds

Typical sizing available : 45-150 microns (+325-100 mesh)

Typical Chemical Composition (in weight %).

Ni	Cr	Fe	C	Si	B
Bal.	0	<0.2	<0.1	2.9	2.9

Packaging:

10 lbs plastic bottles.

Other packaging available on request (plastic or metal pails).

