



PT-MAT™ Ni 46 PTA.

General Information :

PT-MAT™ Ni 46 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 despite low Cr content, the alloy also contains low level of Fe and Carbon.

Applications :

PT-MAT™ Ni 46 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 low level of Fe and C makes it a good candidate to overlay stainless steel components even in single pass. The medium range hardness makes the coating suitable for machining.

Physical properties:

Hardness (outside dilution) : 35 HRc

Density : 8.3 g/cm³ / 0.30 lb/in³

Apparent density (Hall): 4.6 g/cm³

Flow rate (Hall) :14-16 seconds

Typical sizing available : 53-150 microns (+270-100 mesh)

Chemical Composition (in weight %).

Ni	Cr	Fe	C	Si	B
Bal.	<0.1	<0.1	<0.01	3.5	2.0

Packaging:

10 lbs plastic bottles.

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

