



PT-MAT™ Co-Met PTA.

General Information :

PT-MAT™ Co-MET PTA is a cobalt based metal powder used for corrosion resistant coatings. The weld overlay exhibits high tensile strength with high ductility and excellent corrosion resistance in a wide range of temperatures. PT-MAT Co-MET PTA is easy to weld with a good resistance to cracking and can be applied in multiple layers.

Applications :

PT-MAT™ Co-MET PTA is applied through plasma powder surfacing or laser cladding on low alloy to high alloy steel. Typical applications are equipment subject to corrosion, cavitation-erosion combined with slurry erosion and impact.

Physical properties:

Hardness (outside dilution) : 25-30 HRc

Density : 8.47 g/cm³ / 0.306 lb/in³

Apparent density (Hall): 4.7 g/cm³

Flow rate (Hall) :14-15 seconds

Melting temperature : 2430-2470°F (1332-1354°C).

Typical sizing available : 45-150 microns (+325-100 mesh) or 53-180 microns (+270-80 mesh).

Chemical Composition (in weight %).

Co	Cr	W	C	Fe	Ni	Mo	Mn	Si
Bal.	26	2	0.06	3	9	5	<1	0.3

Packaging:

10 lbs plastic bottles.

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

