



## PT-MAT™ Co O6 PTA.

### General Information :

PT-MAT™ CO 06 PTA is a cobalt based metal powder used for corrosion resistant coatings. The weld overlay exhibits high strength and excellent corrosion resistance in a wide range of temperatures. Structure is carbide in a cobalt chrome alloy.

### Applications :

PT-MAT™ CO 06 PTA is applied through plasma powder surfacing or laser cladding on low alloy to high alloy steel. Typical applications are equipment with metal to metal wear (valves seats, gates etc..). The alloy maintains a good hardness up to 1000°F.

### Physical properties:

Hardness (outside dilution) : 36-45 HRc

Density : 8.44 g/cm<sup>3</sup> / 0.305 lb/in<sup>3</sup>

Apparent density (Hall): 4.7 g/cm<sup>3</sup>

Flow rate (Hall) :14-15 seconds

Melting temperature : 2340-2570°F (1285-1410°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	Si
Bal.	28	4	1	3 max	3 max	3 max

### Packaging:

10 lbs plastic bottles.

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

