



PT-MAT™ MAG-BL6.

General Information :

PT-MAT™ MAG-BL6 is a Ni based metal powder used for corrosion resistant coatings. The weld overlay exhibits good strength and excellent corrosion resistance in a wide range of temperatures.

Applications :

PT-MAT™ MAG-BL6 is applied through plasma powder surfacing or laser cladding on low alloy to high alloy steel. Typical applications are equipment in contact with sea water.

The alloy is also used as a buffer layer for hard facing on non-magnetic austenitic stainless steel in the oil drilling industry to prevent corrosion in sulfur and chloride drilling environments.

Physical properties:

Hardness (outside dilution) : 190 HV_{0.1}

Density : 8.44 g/cm³ / 0.305 lb/in³

Apparent density (Hall): 4.7 g/cm³

Flow rate (Hall) :14-17 seconds

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

Chemical Composition (in weight %).

Ni	Cr	Fe	Mo	Co	C	Mn	Si	V	W
Bal.	15-17	5-6	15-18	1% max	0.01 max	1% max	0.3-0.5	0.3 max	3.5

Packaging:

10 lbs plastic bottles.

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

