

PT-MATTM **P-6035S.**

General Information:

PT-MATTM P-6035S is a metal powder where very hard particles of spherical cast tungsten carbide (SFTC) are mixed with a NiCrBSi alloy matrix.

PT-MATTM P-6035S can be applied through PTA welding (Plasma Transfer Arc)or Laser cladding.

Applications:

PT-MATTM P-6035S is applied through plasma powder surfacing or laser cladding on low alloy to high alloy steel. Typical applications are equipment submitted to severe abrasive wear with moderate impact and corrosion. Very efficient coating for mining applications, industrial fans and downhole drilling equipment (stabilizers, radial bearing, kick rings etc...).

Composition (weight)

40 % PT-MAT[™] -N35 (Ni,Cr,B,Si matrix powder) 60% PT-MAT[™] -SFTC (Spherical cast tungsten carbide)

Physical properties:

Hardness:

PT-MATTM -N35: 35-38 HRC PT-MATTM -SFTC: 2650-3000 HV_{0,1}

Melting point:

PT-MATTM -N35: < 1200°C PT-MATTM -SFTC 2860°C

Density:

PT-MATTM -N35 8.4 g/cm³ PT-MATTM -SFTC 16.4 g/cm³

Apparent density (Hall): 6.9 g/cm³ Flow rate (Hall): 9-10 seconds

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

Packaging:

10 lbs plastic bottles.

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

