

DURMAT® 65-PTA

PTA metal powder for abrasion and corrosion resistant hardfacings

General characteristics:

DURMAT 65-PTA is a high wear and corrosion resistant alloy with approx. 60% FTC fused tungsten carbide. The FTC particles are surrounded by the matrix of DURMAT 58-PTA. DURMAT 65-PTA protects components that encounter heavy mechanical and mineral wear.

Chemical Composition:

DURMAT 58-PTA	DURMAT FTC
40	60

Application:

Mechanical engineering, mining equipment, conveyor screws, deep drilling tools, wear plates in agriculture

Physical characteristics:

Hardness:	DURMAT 58-PTA: ~ 52 HRC
	DURMAT FTC: ~ 2,340 HV _{1.0}
Melting Point:	DURMAT 58-PTA: 1,030°C
	DURMAT FTC: 2,860°C
Density:	DURMAT 58-PTA: 8.0 g/cm ³
	DURMAT FTC: 16.0 – 17.0 g/cm ³
Structure:	FTC with Ni-Matrix and Cr-Carbide / Ni-Borid.
Grain Size:	-160 +63 µm **)

Delivery form:

PE-bottle: 5 kg **)

Processing recommendation:

Machining: Grinding only

Welding recommendation:

Remove damaged material. Clean weld zones. Keep dilution low. Coated parts have to cool down slowly.

**) others on request