

DURMAT® 61-PTA

PTA metal powder for abrasion and corrosion resistant hardfacings

General characteristics:

DURMAT 61-PTA is corrosion resistant and acid durable, resistant to heavy abrasion and heat. Due to the high tungsten carbide content, the powder is extremely wear resistant. DURMAT 61-PTA protects components that are exposed to heavy mechanical and mineral wear.

Chemical composition:

DURMAT 59-PTA	DURMAT FTC
40	60

Application:

Mechanical engineering, pump and mill construction, the manufacturing of petrochemical apparatus, deep drilling tools, wear plates in agriculture

Physical characteristics:

Hardness:	DURMAT 59-PTA: ~ 50-55 HRC
	DURMAT FTC: ~ 2340 HV _{0.1}
Melting point:	DURMAT 59-PTA: 1,070°C
	DURMAT FTC: 2,860°C
Density:	DURMAT 59-PTA: 8.1 g/cm ³
	DURMAT FTC: 16.0 – 17.0 g/cm ³
Structure:	FTC with Ni-Matrix and 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