

DURMAT® 401-PTA

PTA metal powder for corrosion and abrasion resistant hardfacings

General characteristics:

DURMAT 401-PTA is a blended powder with 50% Fused Tungsten Carbide (DURMAT FTC). DURMAT401-PTA-coatings are very dense and resistant against wear by abrasive grains or particle erosion/abrasion. Based on the high Cr- and Mo-content in the Ni-based matrix DURMAT 401-coatings show good resistance against corrosion (e.g. in acids with chloride content) and oxidation.

Application:

Conveyor screws, pumps in power plants, fan blades

Chemical composition (in wt-%):

	Cr	C	Mo	Nb	V	Co	Fe	Ni	FTC
Matrix 50%	20-24	<0.1	8-9	3.5	<5	<4	<5	Balance	-
Carbide 50%	-	-	-	-	-	-	-	-	50

Physical characteristics:

Hardness: 55-60 HRC
Melting point: 1,280 °C
Density: 10-11 g/cm³
Structure: NiCrMo-Matrix + FTC
Grain Size: -160+63 µm **)

Delivery form:

PE-bottle: 5 kg **)

Welding recommendation:

Remove damaged material. Clean weld zones. Keep dilution low.

*) Patents: No. 4008091.9-41, Nr.299 18 960.0

***) others on request