

DURMAT[®] 559-PTA

PTA metal powder for corrosion and abrasion resistant hardfacings

General characteristics:

DURMAT 559-PTA is a atomized powder, which deposits a high CrC-alloy. It can be used whenever high abrasion accompanied by corrosion is expected. It is not recommended for impact wear conditions.

Application:

Hardfacing on pumps, mixers, impellers and screws, particularly when these parts are subject to wear by abrasion and corrosion.

Chemical composition (in wt.-%):

Cr	C	B	Si	Fe
32	4	1	1.5	Balance

Physical characteristics:

Hardness: 1st layer 62 HRC
2nd layer 64 HRC
Structure: martensitic with carbides
Grain Size: -160 +63 μm **)

Delivery form:

PE-bottle: 5 kg **)

Welding recommendation:

DURMAT 559-PTA is deposited crack free by controlling the operational conditions. It is recommended that the work piece be preheated up to 450°C and this temperature maintained throughout the complete welding process. After welding, the component should be cooled slowly preferably by furnace operation. Best results are achieved by welding in two layers. A maximum deposit thickness of 8 mm is recommended. The resulting deposits cannot be heat treated, machined or forged. Before overlaying on old previously hardfaced surfaces a buffering layer is recommended.

**) others on request