

DURMAT® 351 NiCrBSi + FTC

gas atomized and crushed, blended
DIN EN 1274 — — *)

Application:

DURMAT® 351 is rust and acid durable, resistant to heavy abrasion and heat. Due to the high FTC-content, the powder is heavy mechanical and mineral wear resistant. Typical application are in mechanical engineering, pump and mill construction, the manufacturing of petrochemical apparatus, deep drilling tools, wear plates in agriculture.

Chemical Composition (in wt-%):

| | Ni | Cr | B | Si | C | W |
|------------|---------|-------|-----|-----|---------|---------|
| 50% Matrix | balance | 16-17 | 3.3 | 3.8 | 0.8-1.0 | 0.8-1.0 |
| 50% FTC | - | - | - | - | 3.9-4.1 | balance |

Physical Properties:

| | |
|-------------------------------|--|
| Density: | Matrix DURMAT® 456: 7.8 – 8.1 g/cm³ FTC DURMAT® 107: 16,0. – 17.0 g/cm³ |
| Particle Size Range in µm *): | 125/45 90/45 45/22 25/5 |
| Hardness: | DURMAT® 107: ~ 2340 HV _{0.1} DURMAT® 456: ~ 56HRC |
| Melting Point: | DURMAT® 456: 1070°C DURMAT® 107: 2860°C |

*) According to EN 1274 3.3 or as per individual customer specification.