

DURMAT[®] 104 WC-Ni 83 17

agglomerated and sintered
EN 1274 — 11.19 — *)

Application:

Metal bound carbide powder for wear resistant coatings produced by flame-, plasma or high-velocity-flame-spraying (HVOF). Tungsten-Carbide-Nickel-coatings are resistant to abrasion and oxidation. In comparison with WC-Co coatings they show an improved corrosion resistance in aqueous solutions. Plasma sprayed coatings can achieve a hardness of up to 900 HV_{0.1} and tensile strength acc. to DIN 50160 of 60 N/mm². The maximum operating temperature is 750°C.

Chemical Composition (in wt-%):

Ni	WC
17.5 ± 1.5	balance

Physical Characteristics:

Crystal size of WC:	2.5 µm FSSS
Apparent Density (ISO 3923-2):	4.3 – 5.4 g/cm ³ **)
Particle Size Range in µm *):	22/5 38/15 53/22
Particle Shape:	Preponderant spherical

- *) According to EN 1274 3.3 or as per individual customer specification.
**) Dependent from designated size.