

# DURMAT<sup>®</sup> 103 WC-Ni 88 12

agglomerated and sintered  
EN 1274 — 11.17 — \*)

## 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 layers they show an improved corrosion resistance in aqueous solutions. Plasma sprayed coatings can achieve a hardness of up to 1000 HV<sub>0.1</sub> and tensile strength acc. to DIN 50160 of 60 N/mm<sup>2</sup>. The maximum operating temperature is 750°C.

## Chemical Composition (in wt-%):

Ni	WC
12 ± 1	balance

## Physical Characteristics:

Crystal size of WC:	2.5 µm FSSS
Apparent Density (ISO 3923-2):	4.3 – 5.4 g/cm <sup>3</sup> **)
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.