

# DURMAT<sup>®</sup> 106 WC-Co-Cr 86 6 8

agglomerated and sintered  
EN 1274 — — \*)

## Application:

Metal bound carbide powder for wear resistant coatings produced by flame-, plasma or high-velocity-flame-spraying (HVOF). Preferably HVOF-sprayed, very dense coatings can be achieved with extreme hardness of 1000 - 1300 HV<sub>0,1</sub> and tensile strength acc. to DIN 50160 of more than 70 N/mm<sup>2</sup>. In comparison with WC-Co, coatings from DURMAT<sup>®</sup> 105 and 106 show a higher resistance against oxidation and corrosion in aqueous solutions and can be operated up to maximum 650°C/1200°F.

## Chemical Composition (in wt-%):

Co	Cr	WC
6 ± 1	8 ± 0.5	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.