

DURMAT® 105 WC-Co-Cr 86 10 4

agglomerated and sintered
EN 1274 — 11.20 — *)

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_{0.1} and tensile strength acc. to DIN 50160 of more than 70 N/mm². In comparison with WC-Co, coatings from DURMAT® 105 show a higher resistance against oxidation and corrosion in aqueous solutions and can be operated up to maximum 650°C/1200°F. For specific applications WC-Co/Cr is also available as DURMAT® 106 with a higher Chromium content.

Chemical Composition (in wt-%):

Co	Cr	WC
10 ± 1	4 ± 0.5	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.