

DURMAT[®] 101 WC-Co 88-12

agglomerated and sintered
EN 1274 — 11.12 — *)

Application:

Metal bound carbide powder for wear resistant coatings produced by flame-, plasma or high-velocity-flame-spraying (HVOF). Tungsten-Carbide-Cobalt-coatings, more and more applied by HVOF, are used to protect against abrasion and friction. Dense and smooth layers with hardness of up to 1200 HV_{0.1} and tensile strength acc. to DIN 50160 of more than 70 N/mm² are frequently used without further treatment. Coating thickness should not exceed 300 µm. Maximum operating temperature is 540°C.

Chemical Composition (in wt-%):

Co	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 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.