

# DURMAT<sup>®</sup> 102 WC-Co 83 17

agglomerated and sintered  
EN 1274 — 11.13 — \*)

## 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 1100 HV<sub>0.1</sub> and tensile strength acc. to DIN 50160 of more than 70 N/mm<sup>2</sup> 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
17 ± 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.