

# DURMAT<sup>®</sup> 115 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. Compared to typical WC-Co/Cr powders DURMAT<sup>®</sup> 115 shows fine carbides with an average size of 1.3 µm. DURMAT<sup>®</sup> 115 has been specially developed for deposition with kerosene and modern gas HVOF systems. In addition with improved deposition efficiency coatings produced from DURMAT<sup>®</sup> 115 show similar abrasive wear resistance and can be polished to a finer surface finish. Due to its Cr content of 4% DURMAT<sup>®</sup> 115 shall be used for applications where standard WC-Co coatings do not meet the requirements regarding corrosion resistance.

## Chemical Composition (in wt-%):

Co	Cr	WC
10 ± 1	4 ± 0.5	balance

## Physical Characteristics:

WC-grain size:	1.3 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.