



CEWELD Powder 8812-Co-45



TYPE	Agglomerated and sintered Tungsten carbide-cobalt powder for Thermal Spraying
APPLICATIONS	CEWELD® Powder 8812-Co-45 is applied using the HVOF and plasma spraying processes when wear-resistant coatings are required. Areas of application include: steel rollers, screw conveyors, impeller screws, shaft rollers, exhaust fans, pump housings, valves
PROPERTIES	CEWELD® Powder 8812-Co-45 is an agglomerated and sintered powder for thermal spraying that has a uniform distribution of tungsten carbide and cobalt. The particles are predominantly spherical. The finer grades produce very tough and dense coatings that can often be used in the “sprayed condition” without post-processing. The powder produces a hard, abrasive, and corrosion-resistant coating and is suitable for use at temperatures up to 900 °F (482 °C). Typical Hardness: 950 – 1350 HV0,3 Standard particle size: 45/20 µm <i>also possible: 45/15 µm, 45/20 µm, 53/20 µm</i>
CLASSIFICATION	EN ISO 14232-1 WC-Co 88/12
SUITABLE FOR	Ideal for use in a wide variety of high wear applications in-cluding erosion, abrasion and sliding wear. High chrome like finishes can be obtained by typical grinding or lapping techniques.

APPROVALS

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)

C	Co	WC
0.5	12	88

MECHANICAL PROPERTIES

REDRYING Not required

Powder type: agglomerated and sintered Primary WC carbide size: 2.5 µm FSSS Apparent density (ISO 3923-2) 4.2-5.5 g/cm³ Particle shape: preponderantly spherical Typical Hardness HV0,3 950 - 1350

GAS ACC. EN ISO 14175