

# CEWELD Powder 8812-Co-45

TYPE	Agglomerated and sintered Tungsten carbide-cobalt powder for Thermal Spraying
APPLICATIONS	CEWELD 8812-Co-45 is an carbide powder for wear resistant coatings produced by flame-, plasma or high-velocityflame-spraying (HVOF). Used to protect against abrasion and friction. Steel Rolls, Conveyor Screws, Impellor Screws, Corrugating Rollers, Exhaust Fans, Pump Housings
PROPERTIES	CEWELD 8812-Co-45 the dense and smooth layers with hardness of up to 1200 HV0.1 and tensile strength acc. to DIN 50160 of more than 70 MPa are frequently used without further treatment. Coating thickness should not exceed 300 µm. Maximum operating temperature is 540°C (1004°F). Powder type: agglomerated and sintered Primary WC carbide size: 2.5 µm FSSS Apparent density (ISO 3923-2): 4.2-5.5 g/cm <sup>3</sup> Particle shape: preponderantly spherical Particle size: 45/20 µm
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
0.1	12	88

MECHANICAL PROPERTIES

REDRYING                      Not required

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GAS ACC. EN ISO 14175