

SP WC8812Ni

CATEGORY Metal Powders

TYPE Carbide powder, agglomerated and sintered

APPLICATIONS carbide powder for wear resistant coatings produced by flame-, plasma or high velocity- flame-spraying (HVOF). Tungsten-Carbide-Nickel-coatings are resistant to abrasion and oxidation. In comparison with WC-Co layers they show an improved corrosion resistance in aqueous solutions. Plasma sprayed coatings can achieve a hardness of up to 1000 HV0.1 and tensile strength acc. to DIN 50160 of 60 N/mm². The maximum operating temperature is 750°C.

PROPERTIES	Crystal size of WC	2.5 µm FSSS
	Apparent Density (ISO 3923-2)	4.3 - 5.4 g/cm
	Particle Size Range in µm	22/5 - 38/15 - 53/22
	Particle Shape	Preponderant spherical

CLASSIFICATION EN ISO 1274: ~— 11.17 —

SUITABLE FOR Augers, impellers, shafts, hydraulics, pulling equipment, fan blades etc.

WELDING POSITIONS:



METAL ANALYSIS % (TYPICAL VALUES)

C	Mn	Si	Cr	Ni	Mo	WC
				~12		Rem

NOTE Other grain sizes available upon request