


# CEWELD Powder 8812-Ni

|   |   |                     |
|---|---|---------------------|
| 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/mm <sup>2</sup> . The maximum operating temperature is 750°C. |                     |
| PROPERTIES  | Powder type: agglomerated with sintered Components Carbide size: 2,5 µm FSSS Density (ISO3923-2): 4.2-5.5 g/cm <sup>3</sup> (dependent on designated size) Particle shape: preponderantly spherical Typical grain size for sale: -53+22 µm ask for other  |                     |
| CLASSIFICATION                                    | EN ISO  | 14232-1 WC-Ni 88/12 |
| SUITABLE FOR                                      | Augers, impellers, shafts, hydraulics, pulling equipment, fan blades etc.   |                     |
| APPROVALS   |   |                     |
| WELDING POSITIONS                                 |    |                     |
| TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%) | Ni  | WC                  |
|   | 12  | 88                  |
| MECHANICAL PROPERTIES                             |   |                     |
| REDRYING  | Not required  |                     |
| GAS ACC. EN ISO 14175                             | None  |                     |