

# CEWELD Powder 8812-Ni

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |    |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----|
| TYPE                                              | Carbide powder, agglomerated and sintered                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |    |
| TOEPASSINGEN                                      | 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. |                     |    |
| EIGENSCHAPPEN                                     | Crystal size of WC Apparent Density (ISO 3923-2) Particle Size Range in µm Particle Shape 2.5 µm FSSS 4.3 – 5.4 g/cm <sup>3</sup> 22/5 – 38/15 – 53/22 Preponderant spherical                                                                                                                                                                                                                                                                                             |                     |    |
| CLASSIFICATIE                                     | EN ISO                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14232-1 WC-Ni 88/12 |    |
| GESCHIKT VOOR                                     | Augers, impellers, shafts, hydraulics, pulling equipment, fan blades etc.                                                                                                                                                                                                                                                                                                                                                                                                 |                     |    |
| GOEDKEURINGEN                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |    |
| LASPOSITIES                                       |                                                                                                                                                                                                                                                                                                                                                                                          |                     |    |
| TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%) | Ni                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | WC |
|                                                   | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 88 |
| MECHANISCHE WAARDEN                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |    |
| HERDROGEN                                         | Not required                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |    |
| GAS ACC. EN ISO 14175                             | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |    |