

# CEWELD Powder 8812-Ni

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |  |    |    |    |    |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|----|----|----|----|
| TYPE                                              | Carbide powder, agglomerated and sintered                                                                                                                                                                                                                                                                                                                                                                              |                     |  |    |    |    |    |
| APPLICATIONS                                      | CEWELD® Powder 8812-Ni is a carbide powder used to produce wear-resistant coatings via flame, plasma, or high-velocity oxygen fuel (HVOF) spraying.<br>Areas of application include: Fan blades, Pump components, Dies, Valve seats, Oilfield equipment<br>Other protective measures against erosion, abrasion, and sliding wear...                                                                                    |                     |  |    |    |    |    |
| PROPERTIES                                        | CEWELD® Powder 8812-Ni is ideal for applications requiring improved corrosion resistance compared to WC-Co types. The powder produces a hard, abrasive, and corrosion-resistant coating. High-gloss polished surfaces, similar to chrome, can be achieved using standard grinding or lapping processes.<br>Typical hardness:<br>68 HRc<br>Standard grain size: 53/20 µm<br>Also possible: 45/15 µm, 45/20 µm, 53/20 µm |                     |  |    |    |    |    |
| CLASSIFICATION                                    | EN ISO                                                                                                                                                                                                                                                                                                                                                                                                                 | 14232-1 WC-Ni 88/12 |  |    |    |    |    |
| SUITABLE FOR                                      | Fan blades, Pump components, Dies, Valve seats, Oilfield equipment<br>Other protective measures against erosion, abrasion, and sliding wear...                                                                                                                                                                                                                                                                         |                     |  |    |    |    |    |
| APPROVALS                                         |                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |  |    |    |    |    |
| WELDING POSITIONS                                 |                                                                                                                                                                                                                                                                                                                                      |                     |  |    |    |    |    |
| TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%) | <table><tr><td>Ni</td><td>WC</td></tr><tr><td>12</td><td>88</td></tr></table>                                                                                                                                                                                                                                                                                                                                          |                     |  | Ni | WC | 12 | 88 |
| Ni                                                | WC                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |  |    |    |    |    |
| 12                                                | 88                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |  |    |    |    |    |
| MECHANICAL PROPERTIES                             |                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |  |    |    |    |    |
| REDRYING                                          | Not required                                                                                                                                                                                                                                                                                                                                                                                                           |                     |  |    |    |    |    |
| GAS ACC. EN ISO 14175                             | None                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |  |    |    |    |    |