

# CEWELD Powder 316L

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |    |     |     |
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| TYPE                                        | Stainless Steel 316L metal powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |    |     |     |
| TOEPASSINGEN                                | <p>CEWELD® Powder 316L produces low carbon high corrosion resistant coatings that are bright, dense and resistant to wear. These coatings can easily be machined to a very good finish with ordinary steel tools.</p> <p><b>Typical Uses and Applications</b></p> <p><b>Corrosion:</b> Rolls used in the printing industry, Pump plungers, Shafts, Seal rings, Impellers, Hydraulic rams</p> <p><b>Cavitation:</b> Wear rings on hydraulic turbines, Diesel engine, cylinder liners, Pumps,</p> <p><b>Low temperature particle erosion:</b> Exhaust fans, Hydraulic valves, Cyclone dust collectors, Dump valve plugs and seats,</p> <p>Salvage / buildup on mismachined or worn steel parts</p> |                     |    |     |     |
| EIGENSCHAPPEN                               | <p>CEWELD® Powder 316L is a austenitic, nickel-chromium stainless steel alloy that offers the highest degree of corrosion protection that is available in a standard stainless steel grade. It provides very good strength at extremely high temperatures.</p> <p><b>Standard particle size: 150/52 µm</b></p> <p><i>Other available grain sizes:</i></p> <p>106/20 µm, 106/38 µm, 106/45 µm, 125/38 µm, 125/45 µm, 150/45 µm, 150/53 µm, 150/63 µm, 180/53 µm, 180/63 µm, 210/63 µm, 250/45 µm, 63/20 µm, 75/20 µm</p>                                                                                                                                                                          |                     |    |     |     |
| CLASSIFICATIE                               | EN ISO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14232-1 CrNiMo18123 |    |     |     |
|                                             | W.Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.4430              |    |     |     |
| GESCHIKT VOOR                               | <ul style="list-style-type: none"><li>• DMLS, (direct metal laser sintering)</li><li>• LMD, (laser metal deposition)</li><li>• PTA (plasma Transferred Arc)</li><li>• HVOF (High Velocity Oxygen Fuel)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |    |     |     |
| GOEDKEURINGEN                               | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |    |     |     |
| LASPOSITIES                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |    |     |     |
| TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%) | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cr                  | Ni | Si  | Mo  |
|                                             | 0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 17                  | 12 | 0.8 | 2.5 |
| MECHANISCHE WAARDEN                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |    |     |     |
| HERDROGEN                                   | Not required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |    |     |     |
| GAS ACC. EN ISO 14175                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |    |     |     |