



# CEWELD Powder PTA DUR 6

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                         |                      |        |          |    |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------|----------------------|--------|----------|----|
| TYPE                                        | Gas atomized spherical Cobalt-Chromium-Tungsten alloy.                                                                                                                                                                                                                                                                                                                                                                                        |   |                         |                      |        |          |    |
| TOEPASSINGEN                                | Outstanding alloy against abrasion, thermo-shock and corrosion combined with high temperatures. Dur 6 PTA Powder is the most widely used of the wear resistant cobalt based alloys and exhibits good all-round performance. It is regarded as the industry standard for general-purpose wear resistance applications.                                                                                                                         |   |                         |                      |        |          |    |
| EIGENSCHAPPEN                               | The alloy deposit can be machined with tungsten tool tips and by grinding. The hardness of the deposit will decrease 16% at 300°C and about 30% at 600°C. Excellent alloy against thermal shock, abrasion, erosion, corrosion and cavitation at high temperature and excellent resistance to many forms of mechanical and chemical degradation over a wide temperature range, and retains a reasonable level of hardness up to 500°C (930°F). |   |                         |                      |        |          |    |
| CLASSIFICATIE                               | EN ISO                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | 14700: P Z Co2          |                      |        |          |    |
| GESCHIKT VOOR                               | Examples include valve seats and gates; pump shafts and bearings, erosion shields and rolling couples. It is often used self-mated.                                                                                                                                                                                                                                                                                                           |   |                         |                      |        |          |    |
| GOEDKEURINGEN                               |                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                         |                      |        |          |    |
| LASPOSITIES                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                         |                      |        |          |    |
| TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%) | Co                                                                                                                                                                                                                                                                                                                                                                                                                                            | C | Si                      | Cr                   | W      | Fe       | Ni |
|                                             | Rem.                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 | 1                       | 28                   | 4      | 1        | 2  |
| MECHANISCHE WAARDEN                         | Heat Treatment                                                                                                                                                                                                                                                                                                                                                                                                                                |   | R <sub>P0,2</sub> (MPa) | R <sub>m</sub> (MPa) | A5 (%) | Hardness |    |
|                                             | As Welded                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |                         |                      |        | 45 HRc   |    |
| HERDROGEN                                   | Not required                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                         |                      |        |          |    |
| GAS ACC. EN ISO 14175                       |                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                         |                      |        |          |    |