

CEWELD Powder PTA DUR 12

 **certilas**® THE FILLER METAL SPECIALIST

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|--|---|-----|------------------|----|----------|--------|----------|-----|
| TYPE | Gas atomized spherical Cobalt-Chromium-Tungsten alloy. | | | | | | | |
| APPLICATIONS | Steam-valves, high temperature liquid pumps, hot cutting tools, cutting tools for plastic, wood and paper as well as high stressed sealings and sliding surfaces. | | | | | | | |
| PROPRIÉTÉS | Outstanding alloy against abrasion, thermo-shock and corrosion combined with high temperatures. The weld deposit can be machined with tungsten tool tips and by grinding. The hardness of the weld deposit will degreas 20% at 600°C and has a nominal hardness of 47-52 HRc at room temperature. The weld deposit is high heat resistant up to 900°C. Dur 12 offers a low coefficient of friction of and exceptional resistance to galling. It has cavitation-erosion resistance ten times that of 304 stainless steel, Dur 12 can be used to protect bearing surfaces in non-lubricating conditions due to its resistance to metal-to-metal wear. | | | | | | | |
| CLASSIFICATION | EN ISO 14700: P Z Co3 | | | | | | | |
| CONVIENT POUR | CEWELD Powder PTA DUR 12 is a cobalt-base metallic powder with spherical shape designed for plasma-transferred-arc (PTA) welding process. | | | | | | | |
| AGRÉMENTS | | | | | | | | |
| POSITIONS DE SOUDAGE | | | | | | | | |
| ANALYSE CHIMIQUE TIPIQUE DU MÉTAL DE SOUDURE (%) | Co | C | Si | Cr | W | Fe | Ni | Mo |
| | Rem. | 1.5 | 1.1 | 30 | 9 | 1.4 | 2 | 0.9 |
| PROPRIÉTÉS MÉCANIQUES | Heat Treatment | | $R_{P0.2}$ (MPa) | | Rm (MPa) | A5 (%) | Hardness | |
| | As Welded | | | | | | 48 HRc | |
| ETUVAGE | Not required | | | | | | | |

GAS ACC. EN ISO 14175