

CEWELD Powder PTA DUR 12

| TYPE | Gas atomized spherical Cobalt-Chromium-Tungsten alloy. | | | | | | | | | | |
|---|---|-----|----|----|----|---|------|---|-----|----|---|
| ANWENDUNGEN | 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. | | | | | | | | | | |
| EIGENSCHAFTEN | 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 decrease 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 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. | | | | | | | | | | |
| KLASSIFIKATION | AWS 636-A: Co-Cr-W 62/29/9 | | | | | | | | | | |
| GEEIGNET FÜR | Dur 12 PTA Powder is typically used for cutting tools that need to withstand abrasion, heat and corrosion. Examples include industrial knives for cutting carpets, plastics, paper and synthetic fibres; and saw tips in the timber industry. It is also used for control plates in the beverage industry, pump vanes, bearing bushes and narrowneck glass mold plungers; and for hardfacing of engine valves, pinch rollers in the metal-processing industries, and rotor blade edges. | | | | | | | | | | |
| ZULASSUNGEN | | | | | | | | | | | |
| SCHWEISSPOSITIONEN | | | | | | | | | | | |
| TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%) | <table><thead><tr><th>Co</th><th>C</th><th>Si</th><th>Cr</th><th>W</th></tr></thead><tbody><tr><td>Rem.</td><td>2</td><td>1.3</td><td>29</td><td>9</td></tr></tbody></table> | Co | C | Si | Cr | W | Rem. | 2 | 1.3 | 29 | 9 |
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| Rem. | 2 | 1.3 | 29 | 9 | | | | | | | |
| MECHANISCHE GÜTEWERTE | | | | | | | | | | | |
| RÜCKTROCKNUNG | Not required | | | | | | | | | | |
| GAS ACC. EN ISO 14175 | | | | | | | | | | | |