



# CEWELD Powder PTA DUR 12

**TYPE** Gas atomized spherical Cobalt-Chromium-Tungsten alloy.

**TOEPASSINGEN** 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.

**EIGENSCHAPPEN** 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.

**CLASSIFICATIE** EN ISO 14700: P Z Co3

**GESCHIKT VOOR** CEWELD Powder PTA DUR 12 is a cobalt-base metallic powder with spherical shape designed for plasma-transferred-arc (PTA) welding process.

**GOEDKEURINGEN**

**LASPOSITIES**

**TYPICAL CHEMICAL  
ANALYSIS OF WELD METAL  
(%)**

Co	C	Si	Cr	W	Fe	Ni	Mo
Rem.	1.5	1.1	30	9	1.4	2	0.9

**MECHANISCHE WAARDEN**

Heat Treatment	R <sub>p0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Hardness
As Welded				48 HRc

**HERDROGEN** Not required

**GAS ACC. EN ISO 14175**