

# 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)	A <sub>5</sub> (%)	Hardness
As Welded				45 HRc

**HERDROGEN** Not required

**GAS ACC. EN ISO 14175**