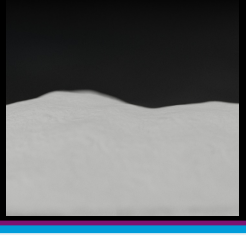

CEWELD Powder PTA DUR 12

certilas® THE FILLER METAL SPECIALIST

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 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.

KLASSIFIKATION

EN ISO 14700: P Z Co3

GEEIGNET FÜR

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

ZULASSUNGEN

SCHWEISSPOSITIONEN

TYPISCHE CHEMISCHE ANALYSE DES SCHWEISSMETALLS (%)

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

MECHANISCHE GÜTEWERTE

Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Hardness
As Welded				48 HRc

RÜCKTROCKNUNG

Not required

GAS ACC. EN ISO 14175