



# CEWELD DUR 12 Tig

**TYPE** Cobalt-based thermo shock resistant alloy for overlay applications.

**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 degrees 20% at 600°C and has a nominal hardness of 49-53 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, DUR12 can be used to protect bearing surfaces in non-lubricating conditions due to its resistance to metal-to-metal wear.

**CLASSIFICATION** AWS A 5.21: ERCoCr-B  
EN ISO 14700: S Co3  
F-nr 71

**CONVIENT POUR** Stellite 12 alloy for hardfacing 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.

**AGRÉMENTS**

**POSITIONS DE SOUDAGE**



**ANALYSE CHIMIQUE  
TYPIQUE DU MÉTAL  
D'APPORT (%)**

C	Si	Mn	Cr	Fe	W	Co
1.4	0.8	0.1	29	2.5	8	Rem.

**PROPRIÉTÉS MÉCANIQUES**

Heat Treatment	R <sub>P0.2</sub> (MPa)	R <sub>m</sub> (MPa)	A5 (%)	Hardness
As Welded				48 HRc

**ETUVAGE** Not required

**GAS ACC. EN ISO 14175** I1



# CEWELD DUR 12 Tig

DUR 12 TIG 2,4 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663402370
DUR 12 TIG 3,2 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663402387
DUR 12 TIG 4,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663402394
DUR 12 TIG 5,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663402400
DUR 12 TIG 6,4 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663402417