



# CEWELD E DUR 12U

**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 decrease 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. E 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, E Dur 12 can be used to protect bearing surfaces in non-lubricating conditions due to its resistance to metal-to-metal wear.

**CLASSIFICATION**

AWS	A 5.13: E CoCr-B
EN ISO	14700: E Co3
DIN	8555: E20-UM-50- CSTZ
F-nr	71

**CONVIENT POUR** 46-48 HRc, Stellite 12 Alloy with high temperature and abrasion resistance, Thermo shock resistant and impact resistant, Hardfacing valves, Seats, Pumps, Knives, Plastic recycling crushers etc.

**AGRÉMENTS**

**POSITIONS DE SOUDAGE**



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

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

**PROPRIÉTÉS MÉCANIQUES**

Heat Treatment	R <sub>P0.2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Hardness
As Welded				49 HRc

**ETUVAGE** Not required

**GAS ACC. EN ISO 14175**



# CEWELD E DUR 12U

E DUR 12U 3,2 X 350MM

Packaging	KG/unit	EanCode
Can	2,6	8720663402134