



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 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. 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



**ANALYSE CHIMIQUE
TYPIQUE DU MÉTAL DE
SOUDURE (%)**

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

PROPRIÉTÉS MÉCANIQUES

Heat Treatment	R _{P0.2} (MPa)	R _m (MPa)	A5 (%)	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