



# CEWELD E DUR 1U

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

**APPLICATIONS** Steam-valves, high temperature liquid pumps, Hot cutting blades, exhaust valves.

**PROPRIÉTÉS** Outstanding properties against strong abrasion, erosion and corrosion in high temperature (900 °C) environments. This electrode can also perfectly be used for applications which are subject to high friction.

**CLASSIFICATION**

AWS	A 5.13: E CoCr-C
EN ISO	14700: E Co3
DIN	8555: E 20-UM-55-CTZ
F-nr	71

**CONVIENT POUR** 53-55 HRc, Stellite 1 alloy with high resistance to abrasion, oxidation and erosion, metal to metal friction and wear, heat resistant, high hardness at high temperatures, completely tempering resistant

**AGRÉMENTS**

**POSITIONS DE SOUDAGE**



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

C	Si	Mn	Fe	W	Cr	Co
2.4	0.7	0.4	2.5	11	30	Rem.

**PROPRIÉTÉS MÉCANIQUES**

Heat Treatment	R <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Hardness
As Welded				55 HRc

**ETUVAGE** Not required

**GAS ACC. EN ISO 14175**