



# CEWELD E DUR 1U

**TYPE** Cobalt-based thermo shock resistant alloy for overlay applications.( Stellite 1, CoCr-C, E Co3)

**APPLICATIONS** CEWELD® E DUR 1U is typically used for cutting tools that need to withstand abrasion, heat and corrosion.  
Examples of uses include: Industrial knives for cutting carpets, plastics, paper, synthetic fibers and saw tips in the wood industry

**PROPERTIES** CEWELD® E DUR 1U has excellent properties against severe abrasion, erosion and corrosion in high temperature environments (900 °C). This electrode is also ideal for applications that 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

**SUITABLE FOR** 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

**APPROVALS**

**WELDING POSITIONS**



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

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

**MECHANICAL PROPERTIES**

Heat Treatment	R <sub>P0.2</sub> (MPa)	R <sub>m</sub> (MPa)	A5 (%)	Hardness
As Welded				55 HRc

**REDRYING** Not required

**GAS ACC. EN ISO 14175**