



# 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**