CEWELD®

Dur 1U

CATEGORY	SMAW Stick Electrodes
TYPE	Cobalt-based thermo shock resistant alloy for overlay applications.
APPLICATIONS	Steam-valves, high temperature liquid pumps, Hot cutting blades, exhaust valves.
PROPERTIES	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:R CoCr-C EN ISO 14700: E Co3 DIN 8555: E 20-UM-55-CTZ
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
WELDING POSITIONS:	

WELD METAL ANALYSIS %

С	Cr	Со	W	Si	Mn	Fe
2.3	32	rest	13	-	-	-

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	Hardness (HRc)		
Treatment	(N/mm ²)	(N/mm ²)	(%)	20°C	600°C	800°C
AW				54-56	42	34

AW: as welded

WELDING PARAMETERS PACKING

	Welding Parameters			Packing	
D (mm)	Length (mm)	Current (A)	kg / can	kg / 6pack	kg / 1000
2.5	350	70-90	3.0	18.0	23.4
3.2	350	90-130	3.0	18.0	37.9
4.0	350	120-160	3.0	18.0	54.9
5.0	350	140-180	3.0	18.0	86.2

NOTE This electrode is also available as high recovery type (160%).