CEWELD[®]

Dur 12U

CATEGORY	SMAW Stick Electrodes				
ТҮРЕ	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.				
PROPERTIES	Outstanding alloy against abrasion, thermo-shock and corrosion combined with high temperatures. The well deposit can be machined with tungsten tool tips and by grinding. The hardness of the weld deposit will degreas 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. 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, 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: R CoC EN ISO 14700: E Co3 DIN 8555: E20-UM				
SUITABLE FOR		high temperature and abrasion resistance, thermo shock resistant and lves, seats, pumps, knives, plastic recycling crushers etc.			
WELDING POSITIONS:		$\times \times \times$			

WELD METAL ANALYSIS %

С	Со	Si	Cr	Ni	W	Fe
1.8	Base	1.0	29.0	<2.5	8.8	<2.5

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	Hardnes HRc		
Treatment	(N/mm ²)	(N/mm ²)	(%)	20°C	300°C	600°C
AW				50	46	40

AW: as welded

WELDING PARAMETERS PACKING

	Welding Parameters			Packing
D (mm) L	ength (mm)	Current (A)	kg / can	kg / 6 pack
2.5	350	70-90		
3.2	350	90-130	2.8	16.8
4.0	350	120-160		

REDRYING TEMPERATURE 300°C / 2hr

NOTE

also available as fluxcored wire for FCAW