# **CEWELD®**

## DUR 1

CATEGORY	FCAW Flux-Cored					
TYPE	Cobalt-based fluxcored wire with high abrasion and corrosion resistance.					
APPLICATIONS	Pump sleeves, expeller srews, plastic recycling, mixer blades for rubber, valves, seats etc					
PROPERTIES	Dur 1 deposits a cobalt-base alloy with an austenitic-ledeburitic structure. This is the hardest of the standard cobalt-base alloys. It has a high resistance to corrosion (especially to reducing acids and impact), extreme wear and temperature shocks. The alloy is only machinable by grinding. Best used on wear pads, rotary seal rings, pump sleeves and centerless grinder work rests.					
CLASSIFICATION	AWS A 5.21: ERC CoCr-C EN ISO 14700: Co3 DIN 8555: MSG 20-GF-55-CTZ					
SUITABLE FOR	Thermal shock resistant, abrasion, erosion, corrosion, cavitation at high temperature, bearing surfaces, chemical industry, hot shear blades, valves					
APPROVALS	CE approved					
WELDING POSITIONS:						

#### WELD METAL ANALYSIS %

С	Mn	Si	Cr	Ni	Со	W	Fe
2.5	1.0	1.0	32.0	<2.5	bal	13.0	<2.5

#### **MECHANICAL PROPERTIES**

Heat	R <sub>P0,2</sub>	Rm	A5		Hardness (HF	kc)	Hardness
Treatment	(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )	(%)	20°C	600°C	800°C	HRc / HV
AW				53	40-43	32-35	

#### AW: as welded

### WELDING PARAMETERS / PACKING (OTHER SIZES AND PACKING FORM AVAILABLE ON REQUEST)

	Welding Parameters	Pack	ing	
D (mm)	Voltage (V)	Current (A)	spool type	kg / spool
1.2	20-24	150-200	KD-300	15
1.6	22-26	180-240	KD-300	15

REDRYING TEMPERATURE 150C / 24hr (not often required)

GAS ACC. EN ISO 14175 M13: (99%Ar - 1%O2)