



CEWELD E DUR 21U

TYPE	Cobalt-based thermo shock resistant alloy for overlay applications.(Stellite 21, CoCr-E, E Co1)							
APPLICATIONS	CEWELD® DUR 21U is a Stellite 21 alloy with excellent properties against abrasion, thermal shock and corrosion in conjunction with high temperatures. It produces a high-quality hardfacing on components that are exposed to multiple stresses from erosion, corrosion, cavitation, pressure, impact, abrasion and high temperatures up to 900 °C. For example: sealing surfaces on fittings, valve seats and cones for combustion engines, metal-to-metal sliding surfaces, highly stressed hot work tools without thermal shock, grinding, stirring and drilling tools..							
PROPERTIES	CEWELD® DUR 21U shows excellent welding properties and self-releasing slag. The weld metal can be machined with carbide tools and by grinding. The hardness of the weld metal decreases by about 20% at 600 °C. The weld metal is highly heat-resistant up to 900 °C. CEWELD® DUR 12U offers a low coefficient of friction and exceptional resistance to abrasion. Cavitation and erosion resistance is ten times that of 304 stainless steel. CEWELD® DUR 21U can be used to protect bearing surfaces in non-lubricated conditions due to its resistance to metal-to-metal wear. Hardness of the pure weld metal: 31 - 37 HRC work-hardened: approx. 45 HRC Hot hardness at 600 °C: approx. 240 HB							
CLASSIFICATION	AWS	A 5.13: E CoCr-E						
	EN ISO	14700: E Co1						
	DIN	8555: E 20-UM-350- CTZ						
	F-nr	71						
SUITABLE FOR	Stellite 21 alloy for cladding Seats and Valves etc. low friction due to high cobalt content							
APPROVALS								
WELDING POSITIONS	PA PB PC							
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	C	Si	Mn	Ni	Mo	Fe	Cr	Co
	0.3	0.9	1	3	5.5	3	28	Rem.
MECHANICAL PROPERTIES	Heat Treatment		R _{p0,2} (MPa)	R _m (MPa)	A5 (%)	Hardness		
	As Welded					35 HRc		
REDRYING	Not required							
GAS ACC. EN ISO 14175								



CEWELD E DUR 21U

E DUR 21U 2,4 X 350MM

Packaging	KG/unit	EanCode
Can	2,8	8720663402165

E DUR 21U 4,0 X 350MM

Packaging	KG/unit	EanCode
Can	2,8	8720663402189