






CEWELD E DUR 12U

TYPE	Cobalt-based thermo shock resistant alloy for overlay applications.					
APPLICATIONS	<p>CEWELD® DUR 12U is a Stellite 12 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.</p> <p>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.</p>					
PROPERTIES	<p>CEWELD® DUR 12U exhibits 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 around 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 12U can be used to protect bearing surfaces in non-lubricated conditions due to its resistance to metal-to-metal wear.</p> <p>Hardness of the pure weld metal Hardness at RT: 48 - 50 HRC Hot hardness at 500 °C: approx. 40 HRC Hot hardness at 700 °C: approx. 33 HRC</p>					
CLASSIFICATION	AWS	A 5.13: E CoCr-B				
	EN ISO	14700: E Co3				
	DIN	8555: E20-UM-50- CSTZ				
	F-nr	71				
SUITABLE FOR	46-48 Hrc, Stellite 12 Alloy with high temperature and abrasion resistance, Thermo shock resistant and impact resistant, Hardfacing valves, Seats, Pumps, Knives, Plastic recycling crushers etc.					
APPROVALS	No Approvals Found					
WELDING POSITIONS	<div style="display: flex; justify-content: space-around; align-items: center;">    </div>					
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	C	Mn	Cr	Fe	W	Co
	1.4	0.1	0.8	2.5	8	Rem.
ALL WELD MECHANICAL PROPERTIES	Heat Treatment	R _{p0,2} MPa	R _m MPa	A ₅ (%)	Hardness Rockwell C	
	As Welded /				Avg. 49	
REDRYING TEMPERATURE	Not required					
GAS ACCORDING EN 14175						



CEWELD E DUR 12U

E DUR 12U 3,2 X 350MM

Type	KG/unit	EANCode
Can	2,6	8720663402134