




CEWELD E DUR 25U

TYPE	Cobalt-based thermo shock resistant alloy for overlay applications. (E Z Co1, Dur 25)																	
APPLICATIONS	Cladding valve seats, Gasturbine components. Metal working tools like piercing points, forming tools and extrusion dies that are exposed to metal on metal wear in combination with thermal fatigue. Also furnace hardware																	
PROPERTIES	CEWELD E DUR 25U is a Cobalt based electrode developed to resist high impact load, high heat, thermal shock, hot corrosion, compression, abrasion, erosion and many other forms of attack. The weld deposit is machinable with carbide tools.																	
CLASSIFICATION	EN ISO	14700: ~E Co1																
	DIN	8555: E 20-UM-300- CTZ																
SUITABLE FOR	Valves in chemical and steam plants, Gasturbine components, Tong bits, Share blades, Hot forging and stamping tools, Hot dies, Aerospace industry, Turbo charger buckets, Hot liquid pumps etc.																	
APPROVALS	No Approvals Found																	
WELDING POSITIONS																		
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>C</th> <th>Mn</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>Fe</th> <th>W</th> <th>Co</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>2</td> <td>20</td> <td>10</td> <td>1</td> <td>3</td> <td>15</td> <td>Rem.</td> </tr> </tbody> </table>	C	Mn	Cr	Ni	Mo	Fe	W	Co	0.1	2	20	10	1	3	15	Rem.	
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ALL WELD MECHANICAL PROPERTIES	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Heat Treatment</th> <th>R_{p0,2} MPa</th> <th>R_m MPa</th> <th>A₅ (%)</th> <th>Hardness Rockwell C</th> </tr> </thead> <tbody> <tr> <td>As Welded /</td> <td></td> <td></td> <td></td> <td>Avg. 25</td> </tr> </tbody> </table>	Heat Treatment	R _{p0,2} MPa	R _m MPa	A ₅ (%)	Hardness Rockwell C	As Welded /				Avg. 25							
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GAS ACCORDING EN 14175																		