

CEWELD ULTIMET Alloy certilas[®] THE FILLER METAL SPECIALIST Tig

TYPE	Cobalt-based solid welding wire for hardfacing / rebuilding									
APPLICATIONS	Wire can be used to weld ULTIMET wrought products and to overlay and clad carbon and low-alloy steels. The weld deposits harden very quickly by cold working. In addition, it is very easy to deposit a "crack-free" layer without a butter layer. The filler metal finish on the MIG wire is for a smooth feeding through welding equipment and reduces tip wear in contact tips.									
PROPERTIES	-ULTIMET wires easily produces crack-free weld deposits (over-matching weld overlays, weld inlays, and claddings)It is easier tot weld with ULTIMET wire than traditional cobalt-based alloys, allowing multiple layer build-ups with no pre-heating neededULTIMET wire produces deposits wich harden quickly through peening, machining, power hammering, burnishing, or hard particle impingement. This hardness creates a tough, ductile, wear-, corrosion-, and high-temperature resistant surface. The hardness of 30% cold-worked wrought product is approximately RC50 ULTIMET deposits exhibit extremely high resistance to metal to metal galling and seizingThe pitting resistance of ULTIMET alloy in chloride solutions is equal to that of HASTELLOY C-22HS alloy, and is greater than that of C-276 alloy.									
CLASSIFICATION										
SUITABLE FOR	•Valve component overlay •"Make/break" seal welds in threades unions •Weld overlays to marine riser tensioners, shafts, and larger hydraulic systems pistons •Weld overlay to u-bends, piping and valves used in conveying sour crudes containing abrasives •Slurry, rock, and acid tumblers & mixers •Impellers •Fiberglass manufacturing									
APPROVALS										
WELDING POSITIONS										
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	Co	Cr	Ni	Мо	Fe	w	Mn	Si	N	с
	Rem.	26	10	5	3	2	0.5	0.08	0.08	0.08
MECHANICAL PROPERTIES	Heat Treatment			R _{P0,2} (MPa)		Rm (MPa)	A5 (%)	Hardness		
	As Welded					917	13	HRc		
REDRYING	Not required									
GAS ACC. EN ISO 14175	11									