CEWELD®

ULTIMET Alloy Tig

CATEGORY GMAW-GTAW Solid wires

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 needed. -ULTIMET 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 seizing. -The 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 AWS 5.21: no class

UNS R31233 ASTM: B815

DIN: W.Nr. 2.4681

DIN CoCr26Ni9Mo5W

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 CE approved.

WELDING POSITIONS:



TYPICAL ALL WELD METAL ANALYSIS

Со	Cr	Ni	Мо	Fe	W	Mn	Si	N	С	Р	S	В
Bal.	23.5-27.5	7.0-11.0	4.0-6.0	1.0-5.0	1.0-3.0	0.10-1.5	0.05-1.0	0.03-0.12	0.02-0.10	< 0.030	< 0.020	< 0.015

MECHANICAL PROPERTIES

Heat treatment	RP0,2		Rm		A5		Impact energy (J) ISO-V			Hardness	
	(N/mm2)		(N/mm2)		(%)		+20C	-40°C	-60C	HRc / HV	
AW			>917		>10	-					

AW: as welded

WELDING PARAMETERS / PACKING

	Packing (kg)			
D (mm)	Current (A) DC-	single	master	
1,6 x 914	50-80	4.54	22,73	
2.0 x 914	70-110	4,54	22,73	
2.4 x 914	110-180	4,54	22,73	

REDRYING TEMPERATURE not required

GAS ACC. EN ISO 14175: I1 (100%Ar)