



CEWELD Alloy 740H

TYPE	Solid Nickel based (GMAW) welding wire with precipitation hardening weld deposit.								
APPLICATIONS	A Superalloy Specifically Designed For Advanced Ultra Supercritical Power Generation. Potential applications include advanced power production boiler tubes and diesel engine exhaust valves.								
PROPERTIES	Alloy 740H is a nickel-base, precipitation hardenable superalloy that offers a unique combination of high strength and creep resistance at elevated temperatures along with resistance to coal ash corrosion. The alloy was originally targeted for use as A-USC boiler tubes in the superheater sections of these plants but was then adapted for application as a material for the steam headers to which the boiler tubes are connected.								
CLASSIFICATION	AWS	A 5.14: ~ ER NiCrCo-1							
SUITABLE FOR	Inconel alloy 740H UNS N 07740								
APPROVALS	No Approvals Found								
WELDING POSITIONS	    								
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	C	Si	Mn	Cr	Ni	Mo	Nb	Fe	Co
	0.08	0.9	0.8	24	40	1.5	2	2.5	21
ALL WELD MECHANICAL PROPERTIES	Heat Treatment	R _{P0,2} MPa	R _m MPa	A5 (%)					
	As Welded /	760	1150	30					
REDRYING TEMPERATURE	Not required								
GAS ACCORDING EN 14175	I1								