

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										
WELDING POSITIONS	PA PB PC PD PE									
	с	Si	Mn	Cr	Ni	Mo	N	b	Fe	Со
METAL (%)	0.08	0.9	0.8	24	40	1.5	2		2.5	21
MECHANICAL PROPERTIES	Heat Treatment			R _{P0,2} (MPa)	Rm (MPa)		A5 (%)	Hardness		
	As Welded			760	1150		30	HRc		
REDRYING	Not required	d								

GAS ACC. EN ISO 14175 I1

Certilas THE FILLER METAL SPECIALIST