



CEWELD Alloy 740H Tig

TYPE Solid Nickel based welding wire for gas tungsten arc welding

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 Tig 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
F-nr	43
FM	6

SUITABLE FOR Inconel alloy 740H

APPROVALS

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

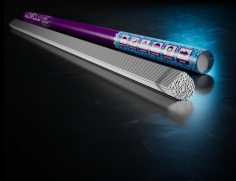
C	Si	Mn	Cr	Ni	Mo	Nb	Fe	Co
0.06	0.8	0.7	24	40	1.5	1.5	2	21

MECHANICAL PROPERTIES

Heat Treatment	R _{P0.2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness
As Welded	780	1150	28	HRc

REDRYING Not required

GAS ACC. EN ISO 14175 I1



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ALLOY 740H TIG 2,4 X
914MM

Packaging	KG/unit	EanCode
Tube	4,54	8720663419552