



# 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 <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A5 (%)	Hardness
As Welded	780	1150	28	HRc

**REDRYING** Not required

**GAS ACC. EN ISO 14175** 11



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ALLOY 740H TIG 2,4 X  
914MM

Packaging	KG/unit	EanCode
Tube	4,54	8720663419552