



## 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

PA PB PC PD PE

Mn

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

ALL WELD MECHANICAL

PROPERTIES

Heat	R <sub>P0,2</sub>	Rm	A5
Treatment	MPa	MPa	(%)
As Welded /	760	1150	30

REDRYING TEMPERATURE Not required

GAS ACCORDING EN 14175 I1