

# High performance

# IMPHY 92

IMPHY 92 is a Nickel-Chromium alloy which shows:

- > High strength due to Ti addition that makes it age-hardenable.
- > Good corrosion resistance in a wide range of temperature (cryogenic to 950°C).

## Chemical composition

С	Mn	Fe	Р	S	Si	Cu	Ni	Ti	Cr
0.08	2	8	< 0.03	< 0.015	0.35	0.5	67 mini	2.5	14
	2.7							3.5	17

#### International standards

AWS A5.14 - ERNiCrFe-6; UNS N07092; B.S 2901 Part 5 - NA 39

## Typical applications

IMPHY 92 is mainly used for dissimilar welding and implemented by MIG or TIG techniques.

IMPHY 92 is used for joining of corrosion resistant alloys to Nickel-Copper alloys, stainless steels and carbon steels.

The weld metal can be hardened by aging treatment (≈ 700°C).

# Mechanical properties

		Tensile strength (MPa)	Elongation %	Red. of area %
Hot rolled and solution annealed	Delivery condition at 20°C	< 800	> 50	> 60

#### Available Forms

IMPHY 92 is delivered in wire.

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