

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

C	Mn	Fe	P	S	Si	Cu	Ni	Ti	Cr
0.08	2 2.7	8	< 0.03	< 0.015	0.35	0.5	67 mini	2.5 3.5	14 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.

