

Wire

Welding alloys



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).

Typical analysis

C	Mn	Fe	P	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

Specifications

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

Mechanical properties

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

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 ($\approx 700^{\circ}\text{C}$).

The data enclosed in this document are only given as indicative values and correspond to our standard product. Different specific requirements are subject to discussion and formal approval by Aperam Alloys Imphy. For further information or special request, please contact us.

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