

Wire Welding alloys



IMPHY N97 Ti is a Nickel Alloy with addition of Titanium which allows:

- Full stability of the weld metal when used with low C grades.
- Good corrosion resistance in alkaline environments especially.

Typical analysis

C	Mn	Fe	P	S	Si	Cu	Ni	Al	Ti
0.15	1	1	<0.03	<0.015	0.75	0.25	93 mini	1.5	2 3.5

Specifications

A5.14 – ERNi-1 ; UNS N02061 ; Werkstoff Nr 2.4155, B.S. 2901 Part 5 – NA 32

Mechanical properties

Hot rolled and Pickled solution	Delivery condition at 20°C	Tensile strength (MPa)	Elongation %	Red. of area %
		650	> 40	> 70

Welding

IMPHY N97 Ti can be welded using every conventional methods such as MIG, TIG or submerged arc welding.

Typical applications

IMPHY N97 Ti is mainly used for welding of Nickel 200 and 201 or surfacing of steel.

Also used for dissimilar welding like joining Nickel 200 & 201 to stainless steels, carbon steels, corrosion & corrosion resistant alloys, copper-nickel & nickel-copper alloys or for joining of copper-nickel & nickel-copper alloys to carbon steels and corrosion resistant alloys.

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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