

Wire

Welding alloys



IMPHY 62 is a Nickel –Chromium Alloy with addition of Niobium:

- This grade has excellent resistance to high temperature oxidation.

Typical analysis

C	Mn	Fe	P	S	Si	Cu	Ni	Cr	Nb+Ta
0.08	1.0	6.0	<0.03	<0.015	0.35	0.5	70 mini	14.0	1.5
		10.0						17.0	3.0

Specifications

AWS A5.14 – ERNiCrFe-5 ; UNS N06062

Mechanical properties

Hot rolled and Solution annealed	Delivery condition at 20°C	Tensile strength (MPa)	Elongation %	Red. of area %
		650	> 40	> 65

Welding

IMPHY 62 is used for GTAW, GMAW welding of alloy 600 in thickness up to 50 mm. The weld metal is comparable to the base metal in high temperature strength and oxidation resistance.

Typical applications

The weld metal deposited from IMPHY 62 has good ductility and can be cold worked readily (it could vary with the dilution).

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.

©November 2019. IMPHY® is a registered trademark of Aperam Alloys Imphy