

Wire

Welding alloys



IMPHY 22-09 is a corrosion resistant duplex stainless steel which shows:

- Excellent general corrosion resistance compared with austenitic and super austenitic family grades.
- High resistance to intergranular corrosion, pitting and especially to stress corrosion in media containing chloride and hydrogen sulphide.

Typical analysis

C	Cr	Ni	Mo	Mn	Si	P	S	N	Cu
0.03	21.5	7.5	2.5	0.5	0.9	<0.03	<0.03	0.08	0.75
	23.5	9.6	3.5	2				0.2	

Specifications

AWS A5.9 – ER 2209 ; EN 12072: 22 9 3 L

Mechanical properties

Hot rolled and Pickled condition	Delivery condition at 20°C	Tensile strength (MPa)	Elongation %	Red. of area %
		950	< 40	> 55

Welding

IMPHY 22 09 was especially developed for welding of URANUS 45N plates (Cr22Ni05 – S31803 – DIN 1.4462).

IMPHY 22 09 is widely used for welding of duplex steels, or dissimilar welding between stainless and low alloyed steels.

Typical applications

Acid transports, offshore, chemical or paper industries.

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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