

Special Stainless

IMPHY 22-09

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.

Chemical composition

С	Cr	Ni	Мо	Mn	Si	Р	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	

International standards

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

Typical applications

Acid transports, offshore, chemical or paper industries.

Mechanical properties

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

Welding

Available Forms

IMPHY 22-09 was especially developed for welding of URANUS 45N plates (Cr22NiO5 – S318O3 – DIN 1.4462).

IMPHY 22-09 is delivered in wire.

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

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The data enclosed in this document are 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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