

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

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

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

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.

Available Forms

IMPHY 22-09 is delivered in wire.

