

HASTEALLOY C22

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

HASTEALLOY C-22 alloy is a versatile nickel-chromium-molybdenum-tungsten alloy with better overall corrosion resistance than other Ni-Cr-Mo alloys available today, including HASTEALLOY C-276 and C-4 alloys and alloy 625. C-22 alloy has outstanding resistance to pitting, crevice corrosion, and stress corrosion cracking. It has excellent resistance to oxidizing aqueous media including wet chlorine and mixtures containing nitric acid or oxidizing acids with chloride ions. Also, C-22 alloy offers optimum resistance to environments where reducing and oxidizing conditions are encountered in process streams. Because of such versatility it can be used where "upset" conditions are likely to occur or in multi-purpose plants

Chemical Properties

C	Mn	P	S	Si	Cr	Mo	V	W	Co	Fe	Ni
0.015 Max	0.50 Max	0.02 Max	0.02 Max	0.08 Max	20.0-22.5	12.5-14.5	0.35 Max	2.5-3.5	2.5 Max	2.0-6.0	BALANCE

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
310	690	45

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Electrical Resistivity
(Kg/m ³)	(Gpa)	Expansion(μm/m/°C)			(W/m.K)		0-100°C	(nΩ.m)
8.69	206	12.4	13.9	16.2	10.1	21.3	514	2475-2550

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N06022
En Name NiCr21Mo14W
W.Nr. 2.4602

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