

INCONEL ALLOY 600

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

Inconel Alloy 600 Is A nickel-chromium alloy with good oxidation resistance at high temperatures and resistance to chloride-ion stress-corrosion cracking, corrosion by high-purity water, and caustic corrosion. Used for furnace components, in chemical and food processing, in nuclear engineering, and for sparking electrodes

Chemical Properties

C	Mn	S	Si	Cr	Ni	Cu	Fe
0.15 Max	1.00 Max	0.020 Max	0.50 Max	14.0-17.0	72.00 Min	0.50 Max	6.0-10.0

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
310	655	20

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Melting Point
(Kg/m ³)	(Gpa)	Expansion(µm/m/°C)			(W/m.K)		0-100°C	°F
8.42	157	11.5	14.2	16.4	12.5	27.5	444	1370-1425

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N06600
En Name NiCr15Fe
W.Nr. 2.4816
BS HR 208

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