

## HASTEALLOY C-2000

# NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

HASTEALLOY C-2000 alloy covers nickel alloy forgings. These alloys are classified into different grades according to their chemical composition. HASTEALLOY C-2000 covers low-carbon Ni-Cr-Mo-Cu alloy UNS N06200. Hastelloy C-2000 UNS N06200, Most versatile, corrosion resistant alloy with excellent resistance to uniform corrosion in oxidizing or reducing environments. Excellent resistance to stress corrosion cracking and superior resistance to localized corrosion as compared to C-276 alloy. The nickel-chromium-molybdenum (Ni-Cr-Mo) C-type alloys have a long history of use in the Chemical Process Industries and are known for their versatility. The values stated in inch-pound units are to be regarded as standard.

### Chemical Properties

C	Mn	P	S	Si	Cr	Mo	Cu	Al	Co	Fe	Ni
0.010 Max	0.50 Max	0.025 Max	0.010 Max	0.08 Max	22.0-24.0	15.0-17.0	1.3-1.9	0.50 Max	2.0 Max	3.0 Max	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 <sup>3</sup> )	(Gpa)	Expansion(µm/m/°C)			(W/m.K)		0-100°C	(nΩ.m)
8500	218	12.4	13.2	15.0	9.1	18.0	428	128

### Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

### Equivalent Designation

UNS N06200  
En Name NiCr23Mo16 Cu  
W.Nr. 2.4675

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