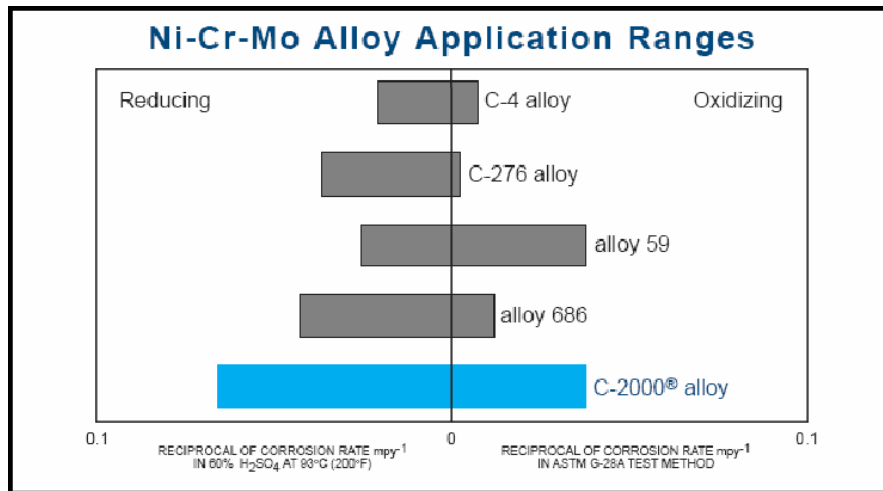


HASTELLOY® C-2000® alloy

HASTELLOY® C-2000® alloy brings an additional dimension to the well known versatility of Ni-Cr Mo alloys in resisting corrosion under widely varying conditions. Combining outstanding resistance to oxidizing media with superior resistance to reducing environments, C-2000® alloy represents a true performance breakthrough for chemical process equipment applications.

C-2000® alloy exhibits crevice corrosion resistance superior to the industry standard, C-276 alloy. Its forming, welding and machining characteristics are similar to those of C-276 alloy.

HASTELLOY® C-2000® alloy is available as sheet, plate, bar, wire, tubular products and forging stock.

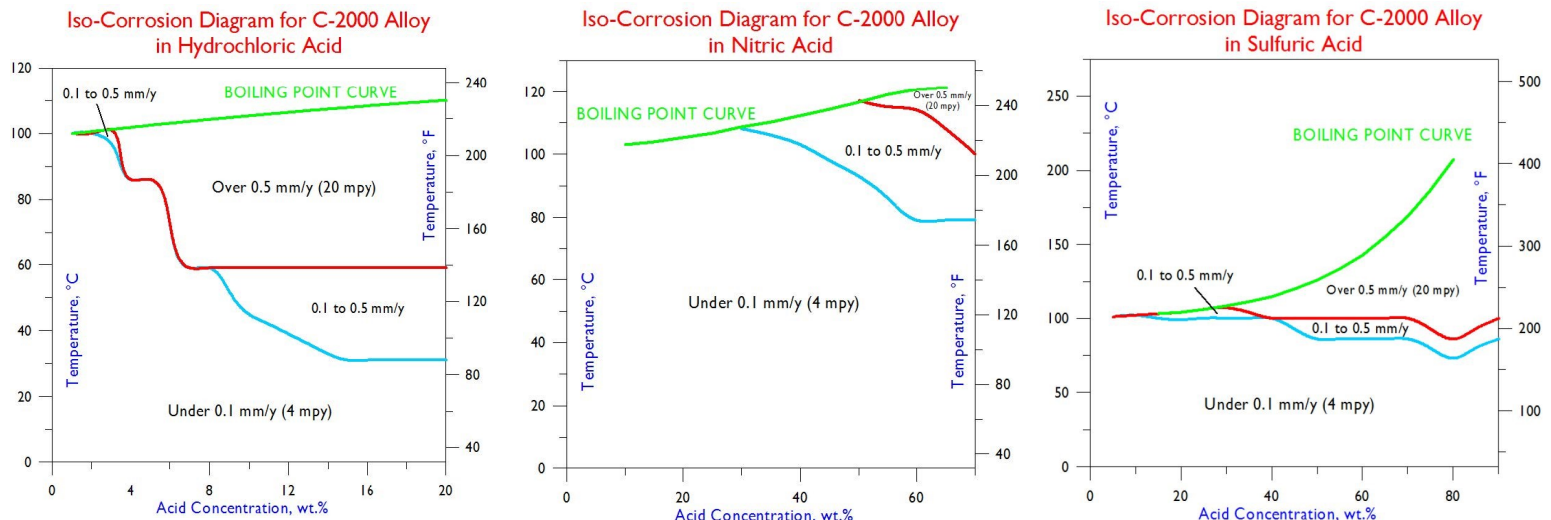


Nominal Composition (wt%):

Ni	Co	Cr	Mo	Cu	Fe	Mn	Al	Si	C
59 ^a	2*	23	16	1.6	3*	0.5*	0.5*	0.08*	0.01*

^aAs Balance Maximum

Corrosion Resistance:



Resistance to Pitting and Crevice Corrosion:

Alloy	Critical Pitting Temperature in Acidified 6% FeCl ₃		Critical Crevice Temperature in Acidified 6% FeCl ₃	
	°F	°C	°F	°C
316L	59	15	32	0
254SMO	140	60	86	30
625	212	100	104	40
C-276	>302	>150	131	55
C-2000®	293	145	176	80

Resistance to Stress Corrosion Cracking:

Alloy	Time to Cracking
316L	2 h
254SMO	24 h
625	No Cracking in 1,008 h
C-276	No Cracking in 1,008 h
C-2000®	No Cracking in 1,008 h

Tensile Strength and Elongation:

Form	Thickness/ Bar Diameter		Test Temperature		0.2% Offset Yield Strength		Ultimate Tensile Strength		Elongation
	in	mm	°F	°C	ksi	MPa	ksi	MPa	%
Sheet	0.063	1.6	RT	RT	52	359	109	752	64
Sheet	0.063	1.6	200	93	46	317	107	738	66
Sheet	0.063	1.6	400	204	38	262	96	662	65
Sheet	0.063	1.6	600	316	34	234	92	634	68
Sheet	0.063	1.6	800	427	31	214	89	614	76
Sheet	0.063	1.6	1000	538	30	207	82	565	75
Sheet	0.063	1.6	1200	649	30	207	77	531	62
Plate	0.5	12.7	RT	RT	50	345	110	758	68
Plate	0.5	12.7	200	93	46	317	105	724	68
Plate	0.5	12.7	400	204	35	241	97	669	72
Plate	0.5	12.7	600	316	31	214	92	634	70
Plate	0.5	12.7	800	427	28	193	88	607	72
Plate	0.5	12.7	1000	538	28	193	83	572	69
Plate	0.5	12.7	1200	649	28	193	76	524	78
Bar	1	25.4	RT	RT	52	359	110	758	67
Bar	1	25.4	200	93	44	303	103	710	68
Bar	1	25.4	400	204	38	262	92	634	70
Bar	1	25.4	600	316	33	228	90	621	70
Bar	1	25.4	800	427	30	207	87	600	71
Bar	1	25.4	1000	538	27	186	82	565	72
Bar	1	25.4	1200	649	26	179	77	531	77