

# HASTELLOY<sup>®</sup> N alloy

## Comparative Aqueous Corrosion Data (mm/y)

Chemical	Concentration	Temperature		Corrosion Rates (mpy)			
		wt. %	°F	°C	N	B-2	C-22 <sup>®</sup>
Hydrochloric Acid	2	RT	RT	1	< 1	< 1	-
	2	150	66	18	11	< 1	10
	2	Boiling	Boiling	73	3	61	-
	5	RT	RT	1	< 1	< 1	-
	5	150	66	20	9	17	14
	15	RT	RT	3	2	< 1	-
	25	RT	RT	2	1	2	-
	37	RT	RT	< 1	< 1	2	-
Sulfuric Acid	5	RT	RT	1	< 1	< 1	-
	5	150	66	11	6	< 1	3
	5	Boiling	Boiling	11	3	9	1
	25	RT	RT	1	< 1	< 1	-
	25	150	66	10	5	< 1	3
	50	RT	RT	< 1	< 1	< 1	-
	80	RT	RT	< 1	< 1	< 1	-
	96	RT	RT	< 1	< 1	< 1	-
Ferric Chloride	2	RT	RT	1	138	< 1	158
Phosphoric Acid	10	RT	RT	< 1	< 1	< 1	-
	10	150	66	1	3	< 1	-
	10	Boiling	Boiling	6	1	< 1	14
	30	RT	RT	1	< 1	< 1	-
	30	150	66	1	2	< 1	-
	50	RT	RT	< 1	< 1	< 1	-
	85	RT	RT	< 1	< 1	< 1	-
Hydrofluoric Acid	5	RT	RT	2	< 1	< 1	1
	5	175	79	20	11	15	-
	25	RT	RT	3	5	5	3
	45	RT	RT	5	3	6	3
	48	175	79	31	25	27	-
Acetic Acid	10	RT	RT	1	< 1	< 1	-
	10	150	66	3	< 1	< 1	2
	10	Boiling	Boiling	1	< 1	< 1	-
	50	RT	RT	1	< 1	< 1	-
	50	150	66	3	< 1	< 1	2
	50	Boiling	Boiling	2	< 1	< 1	-
	99	RT	RT	< 1	< 1	< 1	-

	99	150	66	< 1	< 1	< 1	< 1
	99	Boiling	Boiling	< 1	< 1	< 1	-

RT= Room Temperature

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