

# HASTELLOY® C-276 alloy

## Tensile Strength and Elongation

Form	Test Temperature		Thickness		0.2%Offset Yield Strength		Ultimate Tensile Strength		Elongation
	°F	°C	in	mm	ksi	MPa	ksi	MPa	
Sheet	RT	RT	0.078	2	51.6	356	114.9	792	61
Sheet	400	204	0.078	2	42.0	290	100.6	694	59
Sheet	600	316	0.078	2	35.9	248	98.8	681	68
Sheet	800	427	0.078	2	32.7	225	94.3	650	67
Sheet	400	204	0.094	2.4	39.9	275	101.0	696	58
Sheet	600	316	0.094	2.4	33.5	231	97.6	673	64
Sheet	800	427	0.094	2.4	29.7	205	93.5	645	64
Sheet <sup>1</sup>	400	204	0.063-0.187	1.6-4.7	42.1	290	100.8	695	56
Sheet <sup>2</sup>	600	316	0.063-0.187	1.6-4.7	37.7	260	97.0	669	64
Sheet <sup>2</sup>	800	427	0.063-0.187	1.6-4.7	34.8	240	95.0	655	65
Sheet <sup>2</sup>	1000	538	0.063-0.187	1.6-4.7	33.8	233	88.9	613	60
Plate <sup>3</sup>	400	204	0.188-1.0	4.8-25.4	38.2	263	98.9	682	61
Plate <sup>3</sup>	600	316	0.188-1.0	4.8-25.4	34.1	235	94.3	650	66
Plate <sup>3</sup>	800	427	0.188-1.0	4.8-25.4	32.7	225	91.5	631	60
Plate <sup>3</sup>	1000	538	0.188-1.0	4.8-25.4	32.8	226	87.2	601	59
Plate	RT	RT	1.0	25.4	52.9	365	113.9	785	59
Plate	600	316	1.0	25.4	36.2	250	96.3	664	63
Plate	800	427	1.0	25.4	30.5	210	94.8	654	61

1: Average of 25 tests

2: Average of 34-36 tests

3: Average of 9-11 tests

RT= Room Temperature

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