

HAYNES[®] 263 alloy

Tensile Properties

Cold-Rolled Sheet, Solution Treated and Aged

Test Temperature		0.2% Yield Strength		Ultimate Tensile Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
RT	RT	89.2	615	151.0	1041	35.8
400*	204*	82.3*	567*	139.6*	963*	40.9*
800*	427*	80.4*	554*	126.7*	874*	39.6*
1000	537	76.4	527	124.8	860	42.1
1200	649	75.2	518	130.7	901	36.9
1400	760	76.0	524	100.9	696	26.6
1500*	816*	68.2*	470*	77.3*	533*	35.2*
1600	871	43	296	50.5	348	58.1
1700	927	17.0	117	25.0	172	105.2
1800	982	12.3	85	17.9	123	95.1
2000	1093	5.5	38	9.0	62	103.6

* Limited data

Mill Annealed +1472°F/8h/Air Cool

Cold-Rolled Plate, Solution Treated and Aged

Test Temperature		0.2% Yield Strength		Ultimate Tensile Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
RT	RT	84.7	584	147.7	1018	30.4
400*	204*	74.5*	514*	139.6*	963*	34.2*
800*	427*	70.9*	489*	126.8*	874*	41.2*
1000	537	74.3	512	122.6	845	42.5
1200	649	71.8	495	125.8	867	32.7
1400	760	72.5	500	101.9	703	19.9
1500*	816*	64.1*	442*	81.8*	564*	22.8*
1600	871	45.2	312	53.2	367	47.5
1800	982	12.5	86	18.8	130	101.6
2000	1093	6	41	9.1	63	114.8

* Limited data

Mill Annealed +1472°F/8h/Air Cool