

HAYNES[®] HR-160[®] alloy

Tensile Properties

Tensile Data (plate)*

Test Temperature		Yield Strength 0.2% Offset		Ultimate Tensile Strength		Elongation	Reduction of Area
°F	°C	ksi	MPa	ksi	MPa	%	%
70	21	45.6	314	111.2	767	68	73
200	93	40.4	279	104.0	717	69	74
400	204	33.8	233	97.9	675	71	74
600	316	27.6	190	91.9	634	74	70
800	427	26.0	179	87.7	605	76	68
1000	538	25.5	176	81.8	564	76	69
1200	649	25.7	177	75.8	523	70	67
1400	760	24.7	170	62.1	428	73	64
1600	871	22.1	152	38.3	264	85	84
1800	982	10.8	74	20.4	140	90	98
2000	1093	5.0	34	10.8	74	88	98
2100	1149	2.3	16	6.0	41	113	94
2200	1204	1.6	11	4.4	30	110	94

*Hot-Rolled and Solution-annealed

Tensile Data (Sheet)*

Test Temperature		Yield Strength 0.2% Offset		Ultimate Tensile Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
70	21	51.2	353	110.0	758	63
1000	538	32.7	225	82.5	569	73
1200	649	31.2	215	75.3	519	62
1400	760	30.7	212	61.1	421	47
1600	871	15.9	110	34.9	241	41
1800	982	9.5	66	18.7	129	51
2000	1093	4.7	32	9.8	68	53
2100	1149	2.8	19	6.6	46	107
2200	1204	2.0	14	4.8	33	91

*Solution-annealed