

# HAYNES<sup>®</sup> 625 alloy

## Tensile Properties

### Cold-Rolled and 1925°F (1050°C) Mill-Annealed, Sheet

Test Temperature		0.2% Yield Strength		Ultimate Tensile Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
RT	RT	71.2	491	133.9	923	47.5
1000	540	56.3	388	118.4	816	54.2
1200	650	55.1	380	117.7	811	109.3
1400	760	53.8	371	71.0	490	135.0
1600	870	29.6	204	34.7	239	160.6
1800	980	9.9	68	15.3	106	154.5
2000	1095	5.0	35	8.7	60	128.3

### Hot-Rolled and 1925°F (1050°C) Mill-Annealed, Plate

Test Temperature		0.2% Yield Strength		Ultimate Tensile Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
RT	RT	60.5	417	129.6	894	48
800*	425*	46.4	320	116.1	800	51.5
1000	540	44.8	309	112.3	774	52.1
1200	650	43.7	301	112.7	777	80.3
1400	760	43.7	301	71.1	490	102.2
1600	870	30.6	211	38.0	262	115.7
1800	980	11.8	81	17.3	119	120.7
2000	1095	5.4	37	9.3	64	135.1

\*Average of results for only two products

RT=Room Temperature

### Comparative Elevated Temperature Yield Strengths, Sheet



