

# HAYNES<sup>®</sup> 263 alloy

## Thermal Stability

Condition	Test Temperature		0.2% Yield Strength		Ultimate Tensile Strength		4D Elongation
	°F	°C	ksi	MPa	ksi	MPa	%
Solution Annealed	RT	RT	58	400	120.1	828	53.3
Age Hardened*	RT	RT	93.1	642	154.2	1063	36.9
	1200	649	78.2	539	132.3	912	38.6
	1400	760	79.2	546	100	689	29.5
	1500	816	69.3	478	77.9	537	36.9
	1600	871	42.2	291	49.4	341	61.2
Age Hardened* + 1200°F/8000h	RT	RT	113.3	781	176.8	1219	28.7
	1200	649	96.7**	667**	149.2**	1029**	31.3**
Age Hardened* + 1400°F/8000h	RT	RT	83.3	574	151.3	1043	24.8
	1400	760	60.9	420	83.7	577	36.4
Age Hardened* + 1500°F/8000h	RT	RT	77.5	534	132.8	916	23
	1500	816	42	290	58.6	404	37
Age Hardened* + 1600°F/8000h	RT	RT	54.9	379	115.7	798	37.8
	1600	871	38.4	265	25.5	176	49.1

\* Samples were age hardened by treating at 1472°F for 8 hours and air cooling.

\*\* Limited data