

HAYNES[®] HR-120[®] alloy

Thermal Stability

Condition	Ultimate Tensile Strength		0.2% Offset Yield Strength		Elongation	Reduction of Area
	ksi	MPa	ksi	MPa	%	%
Solution Heat-treated	108.0	745	49.0	338	48.5	69
+ 1200°F/8,000 h	109.2	753	52.5	362	26.2	32.8
+ 1200°F/20,000 h	112.4	775	53.5	369	24.2	34
+ 1200°F/30,000 h	112.7	777	52.3	361	24.6	32.7
+ 1200°F/50,000 h	113.0	779	53.1	366	23.2	32.5
+1400°F/8,000 h	101.8	702	47.9	330	18.2	17.6
+1400°F/20,000 h	101.2	698	43.3	299	18.0	17.2
+1400°F/30,000 h	101.5	700	44.8	309	19.7	18.4
+1400°F/50,000 h	99.8	688	44.9	310	14.8*	10.8
+ 1600°F/8,000 h	101.0	696	44.7	308	22.6	22.6
+ 1600°F/20,000 h	96.9	668	40.9	282	19.4	17.9
+ 1600°F/30,000 h	96.7	667	40.3	278	22.0	19.5
+ 1600°F/50,000 h	94.3	650	39.8	274	20.1	18.2

*AGL, which tends to be lower; Other data are 4D Elong.