

HAYNES[®] HR-224[®] alloy

Creep-Rupture Strength

Temperature		Creep	Approximate Initial Stress to Produce Specified Creep in							
			10 hours		100 hours		1000 hours		10,000 hours	
°F	°C	%	ksi	MPa	ksi	MPa	ksi	MPa	ksi	MPa
1200	649	0.1	36.9	254	26.8	185	19.6	135	14.5	100
		1.0	59.7	412	39.1	270	26.1	180	17.7	122
		R	82.8	571	18.3	126	29.1	201	18.0	124
1300	704	0.1	19.1	132	13.9	96	10.2	70	7.6	52
		1.0	29.0	200	19.2	132	12.9	89	8.9	61
		R	43.4	299	25.5	176	15.5	107	9.7	67
1400	760	0.1	10.3	71	7.5	52	5.6	39	4.2	29
		1.0	14.9	103	9.9	68	6.8	47	4.8	33
		R	23.7	163	14.1	97	8.7	60	5.5	38
1500	816	0.1	5.8	40	4.3	30	3.2	22	2.4	17
		1.0	8.1	56	5.5	38	3.8	26	2.7	19
		R	13.5	93	8.1	56	5.1	35	3.3	23
1600	871	0.1	3.4	23	2.5	17	1.9	13	1.5	10
		1.0	4.6	32	3.2	22	2.3	16	1.7	12
		R	8.0	55	4.9	34	3.2	22	2.1	14
1700	927	0.1	2.1	14	1.6	11	1.2	8	0.9	6
		1.0	2.8	19	2.0	14	1.4	10	1.1	8
		R	5.0	34	3.1	21	2.1	14	1.4	10
1800	982	0.1	1.3	9	1.0	7	0.8	6	0.6	4
		1.0	1.8	12	1.3	9	1.0	7	0.8	6
		R	3.2	22	2.1	14	1.4	10	1.0	7
1900	1038	0.1	0.9	6	0.7	5	0.5	3	0.4	3
		1.0	1.2	8	0.9	6	0.7	5	0.6	4
		R	2.2	15	1.4	10	1.0	7	0.8	6
2000	1093	0.1	0.6	4	0.5	3	0.4	3	0.3	2
		1.0	0.8	6	0.7	5	0.5	3	0.4	3
		R	1.5	10	1.1	8	0.8	6	0.6	4

R = Rupture