

# HAYNES<sup>®</sup> 556<sup>®</sup> alloy

## Creep and Rupture Properties

### Solution Annealed Sheet, Plate and Bar

Test Temperature		Creep %	Approximate Initial Stress to Produce Specified Creep in:							
°F	°C		10 h		100 h		1000 h		10,000 h*	
		ksi	MPa	ksi	MPa	ksi	MPa	ksi	MPa	
1200	650	0.5	44.0	305	32.0	220	24.0	165	-	-
		1.0	49.0	340	35.0	240	25.5	175	18.5	130
		Rupture	-	-	53.0	365	38.0	260	27.5	190
1300	705	0.5	29.0	200	21.0	145	15.0	105	-	-
		1.0	33.0	230	24.0	165	17.5	120	12.5	86
		Rupture	52.0	360	37.0	255	26.0	180	17.0	115
1400	760	0.5	19.0	130	13.5	93	9.4	65	-	-
		1.0	22.0	150	16.0	110	11.5	79	8.5	59
		Rupture	35.0	240	25.0	170	17.5	120	11.9	82
1500	815	0.5	13.0	90	9.0	62	6.5	45	-	-
		1.0	15.0	105	11.0	76	8.2	57	6.0	41
		Rupture	25.0	170	17.0	115	11.8	81	7.6	52
1600	870	0.5	8.9	61	6.4	44	4.6	32	-	-
		1.0	10.0	69	7.5	52	5.5	38	4.1	28
		Rupture	17.0	115	11.5	79	7.5	52	4.9	34<
1700	925	0.5	6.2	43	4.5	31	3.2	22	-	-
		1.0	7.2	50	5.0	34	3.5	24	2.5	17
		Rupture	12.0	83	7.6	52	4.8	33	3.0	21
1800	980	0.5	4.4	30	3.0	21	2.0	14	-	-
		1.0	5.0	34	3.4	23	2.3	16	1.6	11
		Rupture	7.5	52	4.8	33	3.0	21	1.9	13

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