

Table 1: Expected minimum stress-to-rupture values, 1000 psi, Type 304 stainless steel

Temp. (°F)	US customary units										
	1 h	10 h	30 h	10 ² h	3× 10 ² h	10 ³ h	3× 10 ³ h	10 ⁴ h	3× 10 ⁴ h	10 ⁵ h	3× 10 ⁵ h
800	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	51.0	44.3	39.0
850	56.5	56.5	56.5	56.5	56.5	56.5	50.2	45.4	40.0	34.7	30.5
900	55.5	55.5	55.5	55.5	51.5	46.9	41.2	36.1	31.5	27.2	24.0
950	54.2	54.2	51.0	48.1	43.0	38.0	33.5	28.8	24.9	21.2	18.3
1000	52.5	50.0	44.5	39.8	35.0	30.9	26.5	22.9	19.7	16.6	14.9
1050	50.0	41.9	37.0	32.9	28.9	25.0	21.6	18.2	15.5	13.0	11.0
1100	45.0	35.2	31.0	27.2	23.9	20.3	17.3	14.5	12.3	10.2	8.6
1150	38.0	29.5	26.0	22.5	19.3	16.5	13.9	11.6	9.6	8.0	6.6
1200	32.0	24.7	21.5	18.6	15.9	13.4	11.1	9.2	7.6	6.2	5.0
1250	27.0	20.7	17.9	15.4	13.0	10.8	8.9	7.3	6.0	4.9	4.0
1300	23.0	17.4	15.0	12.7	10.5	8.8	7.2	5.8	4.8	3.8	3.1
1350	19.5	14.6	12.6	10.6	8.8	7.2	5.8	4.6	3.8	3.0	2.4
1400	16.5	12.1	10.3	8.8	7.2	5.8	4.7	3.7	3.0	2.3	1.9
1450	14.0	10.2	8.8	7.3	5.8	4.6	3.8	2.9	2.3	1.8	1.4
1500	12.0	8.6	7.2	6.0	4.9	3.8	3.0	2.4	1.8	1.4	1.1