

# Tensile Strength

Average Short-Time Ultimate Tensile Strength, ksi

Alloy	Temperature, °F													
	RT	200	400	600	800	1000	1200	1400	1600	1800	1900	2000	2100	2200
446	68	70.7	69.3	80	77	52.7	15	5	-	-	-	-	-	-
304L	79.2	68.1	65.4	58.6	57.7	52.3	42	28.5	-	-	-	-	-	-
316L	78.9	69.4	63.9	63.1	62.3	56.8	46.5	32.3	-	-	-	-	-	-
321	84	72.8	62	62	62	59.5	45.5	27.5	-	-	-	-	-	-
321H	75.5	67	62.5	62	62	59	45.5	27	-	-	-	-	-	-
347, 347H	87	75.7	65.2	62.6	61.8	60.9	53.9	37.4	-	-	-	-	-	-
RA 253 MA <sup>®</sup>	104	90	83.5	82	79	74	63	45	22	11.5	9.5	9.4	7.5	3.7
309	90	-	-	-	-	-	52	-	18	8.5	-	-	-	-
RA 602 CA <sup>®</sup>	105	-	-	-	95.4	93.4	84	54.4	32.8	17.1	13.6	13	10.2	5.8
310	82.6	78.1	72.5	72.2	71.8	67.8	54.1	35.1	19.1	10.4	-	-	-	-
RA330 <sup>®</sup>	86.6	79.2	75.3	74.4	74.2	71	56.7	35.9	21.1	10.4	-	-	-	3.2
RA333 <sup>®</sup>	107	100.2	96.1	92.5	89.9	85.4	73.6	53.9	27.5	15.7	-	7.4	6.6	4.0
625	144	-	134	132	131.5	130	119	78	40	17	-	-	-	-
601	100	-	-	-	-	90	60	34	18	-	-	-	-	-
718	210	204	198	195	191	185	168	110	-	-	-	-	-	-
600	93	-	-	-	-	84	65	27.5	15	7.5	-	-	-	-
Alloy X	111	-	-	-	-	89	83	67	45	-	-	-	-	-