

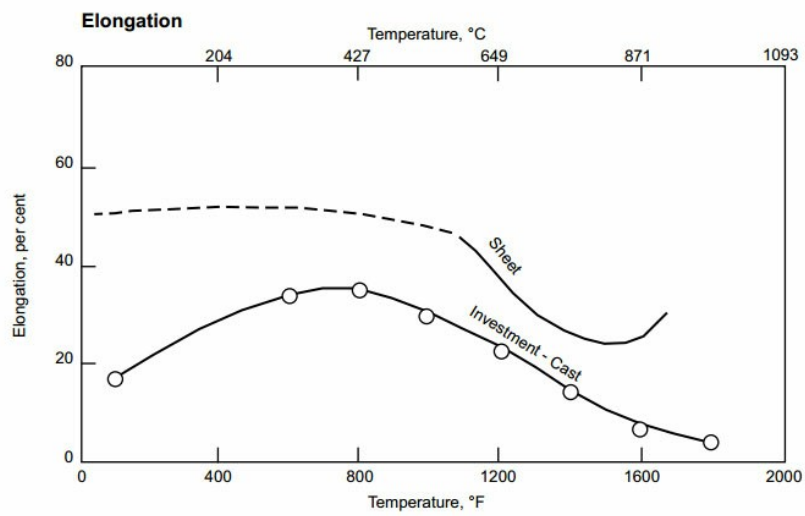
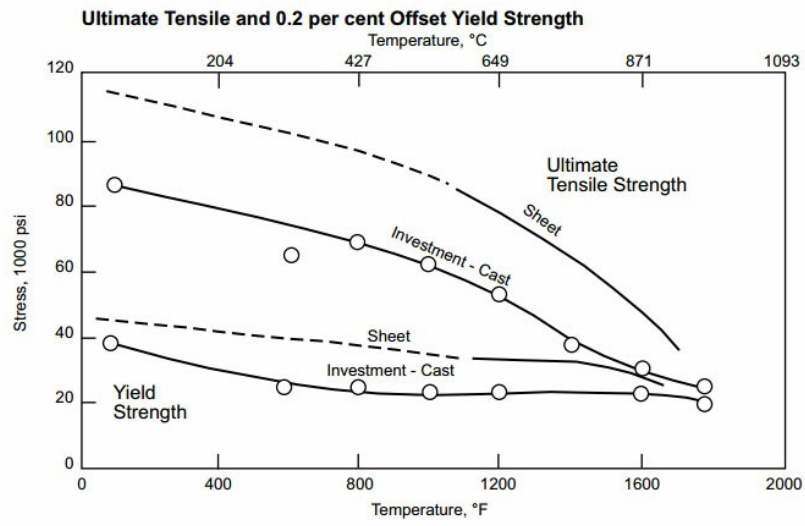
# HASTELLOY<sup>®</sup> N alloy

## Tensile Data

### Short-Time Tensile Data

Form	Condition	Aging		Test Temperature		Ultimate Tensile Strength	0.2% Offset Yield Strength	Elongation	
		°F	°C	°F	°C	psi	psi	%	
Sheet 0.063 in. thick	Heat-treated for at 2150°F (1177°C), RAC	-	-	RT	RT	115,100	45,500	50.7	
		-	-	1100	593	86,900	32,900	45.3	
		-	-	1300	764	69,600	31,600	30.0	
		-	-	1500	816	55,900	29,500	24.3	
		-	-	1700	927	34,000	25,900	30.0	
	-	-	1500	128	RT	RT	115,400	49,300	46.8
	Heat-treated at 2150°F (1177°C), then welded and tested as-welded	-	-	RT	RT	116,100	-	37.5	
		-	-	1200	649	71,500	-	17.0	
		-	-	1300	704	63,500	-	10.5	
		-	-	1500	816	52,000	-	8.5	
Sheet 0.045 in. thick	Heat-treated at 2150°F (1177°C), RAC	-	-	RT	RT	114,400	44,700	50	
		-	-	1000	538	93,000	28,300	46	
		-	-	1100	593	93,000	28,900	50	
		-	-	1200	648	82,400	27,500	37	
		-	-	1300	704	69,900	28,000	24	
		-	-	1400	760	61,800	26,200	21	
		1000 10,000	RT	RT	117,700	45,100	50		
			RT	RT	120,000	47,500	49		
			RT	RT	116,000	46,800	46		
			RT	RT	115,500	45,800	46		
			RT	RT	115,000	43,600	40		
		1000 10,000	1000	538	97,700	-	46		
			1100	593	90,500	-	40		
			1200	649	81,900	-	32		
			1300	704	76,100	-	24		
			1400	760	65,100	-	20		
Weld Metal	As Welded	-	-	RT	RT	116,100	-	39.3*	
		-	-	1200	649	73,600	-	18.1*	
		1200	500	RT	RT	116,800	-	38.6*	
		-	-	1200	649	82,700	-	26.5*	

RT= Room Temperature



Sheet-0.063 inch thick, heat-treated at 2150°F (1177°C), RAC  
 Investment-Cast - 0.250 inch bars, heat-treated at 2150°F (1177°C) for 30 minutes, RAC