

**TABLE: TYPICAL PHYSICAL PROPERTIES - ANNEALED CONDITION**

COMMON NAME	UNS NO	EURONORM GRADE NO	DENSITY kg/m <sup>3</sup>	MEAN COEFFICIENT OF THERMAL EXPANSION (b)			THERMAL CONDUCTIVITY AT 100°C W/m.K	SPECIFIC HEAT 0-20°C J/kg.K	ELECTRIC RESISTIVITY AT 20°C nΩm	
				ELASTIC MODULUS AT 20°C GPa (a)	20-100°C μm/m/°C	20-300°C μm/m/°C				20-500°C μm/m/°C
<b>FERRITIC</b>										
409	S40900	1.4512	7700	220	10.5	11.5	12.0	25	460	600
1.4003	S41003	1.4003	7700	220	10.4	11.2	11.9	25	430	600
430	S43000	1.4016	7700	220	10.0	10.5	11.0	25	460	600
444	S44400	1.4521	7700	220	10.4	11.2	11.9	23	430	800
446	S44600	1.4749	7700	220	9.8	10.5	11.2	17	500	700
<b>AUSTENITIC</b>										
201	S20100	1.4372	7800	200	16.6	18.0	19.6	15	500	700
202	S20200	1.4373	7800	200	16.6	18.4	19.2	15	500	700
301	S30100	1.4310	7900	200	16.0	17.0	18.0	15	500	730
302	S30200	1.4319	7900	200	17.2	17.8	18.4	15	500	720
303	S30300	1.4305	7900	200	16.0	17.0	18.0	15	500	730
304	S30400	1.4301	7900	200	16.0	17.0	18.0	15	500	730
304L	S30403	1.4307	7900	200	16.0	17.0	18.0	15	500	730
302HQ	S30430	1.4567	7900	200	16.7	17.7	18.4	15	500	730
305	S30500	1.4303	7900	200	16.0	17.0	18.0	15	500	780
+	S30815	1.4835	7800	200	16.5	17.5	18.2	15	500	850
309	S30900	1.4833	7900	200	16.0	16.8	17.8	15	500	780
310S	S31008	1.4845	7900	200	15.0	16.2	17.2	15	500	850
316	S31600	1.4401	8000	200	16.0	17.0	18.0	15	500	750
316L	S31603	1.4404	8000	200	16.0	17.0	18.0	15	500	750
317L	S31703	1.4438	8000	200	16.0	17.0	18.0	15	500	750
321	S32100	1.4541	7900	200	16.0	17.0	18.0	15	500	730
347	S34700	1.4550	7900	200	16.0	17.0	18.0	15	500	730
+	N08904	1.4539	8000	195	15.8	16.5	17.3	12	450	1000
<b>DUPLEX</b>										
+	S31803	1.4462	7800	200	13.0	14.0	-	15	500	800
+	S32304	1.4362	7800	200	13.0	14.0	-	15	500	800
+	S32550	1.4507	7800	200	13.0	14.0	-	15	500	800
+	S32750	1.4410	7800	200	13.0	14.0	-	15	500	800
+	S32760	1.4501	7800	200	13.0	14.0	-	15	500	800
<b>MARTENSITIC</b>										
410	S41000	1.4006	7700	215	10.5	11.5	-	30	460	600
416	S41600	1.4005	7700	215	10.5	11.5	-	30	460	600
420	S42000	1.4021	7700	215	10.5	11.5	-	30	460	600
431	S43100	1.4507	7700	215	10.0	10.5	-	25	460	700
440C	S44004	1.4125	7700	215	10.4	11.2	-	15	430	800
<b>PRECIPITATION HARDENING</b>										
630	S17400	1.4542	7800	200	10.9	11.1	-	16	500	710
631	S17700	1.4568	7800	200	13.0	14.0	-	16	500	800

**NOTES:**

(a) 1 GPa = 1000 MPa

(b) μm/m/°C = x10<sup>-6</sup>/°C

+ Proprietary alloy names apply to these grades.

These properties are approximate and intended only for guidance.