

THERMAL EXPANSION OF PIPE AND TUBE

TEMPERATURE	CARBON STEEL	ALLOY STEEL	STAINLESS STEEL
°F	C-Mo 3Cr-Mo	5Cr-Mo THRU 9Cr-Mo	18Cr-8Ni
-25	-0.68	-0.63	-0.98
0	-0.49	-0.46	-0.72
25	-0.32	-0.3	-0.46
50	-0.14	-0.13	-0.21
70	0	0	0
100	0.23	0.22	0.34
125	0.42	0.4	0.62
150	0.61	0.58	0.9
175	0.8	0.76	1.18
200	0.99	0.94	1.46
225	1.21	1.13	1.75
250	1.4	1.33	2.03
275	1.61	1.52	2.32
300	1.82	1.71	2.61
325	2.04	1.9	2.9
350	2.26	2.1	3.2
375	2.48	2.3	3.5
400	2.7	2.5	3.8
425	2.93	2.72	4.1
450	3.16	2.93	4.41
475	3.39	3.14	4.71
500	3.62	3.35	5.01
525	3.86	3.58	5.31
550	4.11	3.8	5.62
575	4.35	4.02	5.93
600	4.6	4.24	6.24
625	4.86	4.47	6.55
650	5.11	4.69	6.87
675	5.37	4.92	7.18
700	5.63	5.14	7.5
725	5.9	5.38	7.82
750	6.16	5.62	8.15
775	6.43	5.86	8.47
800	6.7	6.1	8.8
825	6.97	6.34	9.13
850	7.25	6.59	9.46
875	7.53	6.83	9.79
900	7.81	7.07	10.12
925	8.08	7.31	10.46
950	8.35	7.56	10.8
975	8.62	7.81	11.14
1000	8.89	8.06	11.48
1025	9.17	8.3	11.82
1050	9.46	8.55	12.16
1075	9.75	8.8	12.5
1100	10.04	9.05	12.84
1125	10.31	9.28	13.18
1150	10.57	9.52	13.52
1175	10.83	9.76	13.86
1200	11.1	10	14.2

Thermal expansion per 100 feet of pipe or tube
For assistance contact our sales / engineering department