



TUBING RESOURCE GUIDE / STOCK LIST

COMMON GRADE SUBSTITUTIONS		GAUGE CONVERSION CHART			WELDED CARBON STEEL
Original Grade	Alternate	B.W.G.		Decimal Equivalent	
SA-83	SA-192	0	=	0.340	SA-178-A, SA-178-C, SA-178-D, SA-214
SA-178-A	SA-192	1	=	0.300	SEAMLESS CARBON STEEL
SA-178-C	SA-210-A1	2	=	0.284	SA-179, SA-192, SA-210-A1, SA-210-C
SA-179	SA-192	3	=	0.259	SEAMLESS ALLOY STEEL
SA-192	SA-210-A1	4	=	0.238	SA-209-T1, SA-209-T1A, SA-213-T2, SA-213-T5, SA-213-T12, SA-213-T9, SA-213-T11, SA-213-T22, SA-213-T23, SA-213-T91, SA-213-T92
SA-209-T1,T1A,T1B	SA-213-T11	5	=	0.220	SEAMLESS/WELDED STAINLESS STEEL
SA-210-A1	SA-213-T11	6	=	0.203	SA-213-TP304, SA-213-TP304H, SA-213-TP304L, SA-213-TP310, SA-213-TP316, SA-213-TP316H, SA-213-TP316L, SA-213-TP321, SA-213-TP321H, SA-213-TP347, SA-213-TP347H, A-249, A-269
SA-210-C	SA-213-T11	7	=	0.180	
SA-213-T11	SA-213-T22	8	=	0.165	
SA-213-T12	SA-213-T11	9	=	0.148	
SA-213-T17	SA-213-T11	10	=	0.134	
SA-213-T2	SA-213-T11	11	=	0.120	
SA-213TP304H	SA-213-TP347H	12	=	0.109	
SA-213-TP321H	SA-213-TP347H	13	=	0.095	
SA-213-TP347H	NONE	14	=	0.083	
SA-226	SA-178-A	15	=	0.072	
<p>Note: These upgrades have been seen within the industry and are not to be considered as engineered standards. Please check with your engineer for approval.</p>		16	=	0.065	
		17	=	0.058	
		18	=	0.049	
		19	=	0.042	
		20	=	0.035	
		21	=	0.032	
		22	=	0.028	
		23	=	0.025	
		24	=	0.022	
		25	=	0.020	
	26	=	0.018		
	27	=	0.016		
	28	=	0.014		
	29	=	0.013		
	30	=	0.012		
	31	=	0.010		
	32	=	0.009		
	33	=	0.008		
					AIR HEATER TUBING
					A-513 Type 1, A-513 Type 2
					CONDENSER TUBING
					SB-111



ON CALL 24/7/365

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