

# MATERIALS REGISTERED WITH THE NATIONAL BOARD



The list below is a reference chart for the commonly used materials and their corresponding SA and SB Numbers for use on all vessels registered with the National Board.



	UNS	MATERIAL	PLATE SHEET STRIP	ROD BAR SHAPES	WELDED PIPE	SEAMLESS PIPE	WELDED TUBING	SEAMLESS TUBING	FORGED FLANGES	CAST FLANGES	FORGED SCREWED FITTINGS
1	S30400	304	SA-240	SA-479	SA-312	SA-312	SA-249	SA-213	SA-182 ASME B16.5	SA-351, CF8 ASME B16.5 UNS J92600	SA-182 ASME B16.11
2	S30403	304L	SA-240	SA-479	SA-312	SA-312	SA-249	SA-213	SA-182 ASME B16.5	SA-351, CF3 ASME B16.5 UNS J92500	SA-182 ASME B16.11
3	S31600	316	SA-240	SA-479	SA-312	SA-312	SA-249	SA-213	SA-182 ASME B16.5	SA-351, CF8M ASME B16.5 UNS J92900	SA-182 ASME B16.11
4	S31603	316L	SA-240	SA-479	SA-312	SA-312	SA-249	SA-213	SA-182 ASME B16.5	SA-351, CF3M ASME B16.5 UNS J92800	SA-182 ASME B16.11
5	S31700	317	SA-240	SA-479	SA-312	SA-312	SA-249	SA-213	SA-182 ASME B16.5	SA-351 CG8M UNS J93000	SA-182 ASME B16.11
6	S31703	317L	SA-240	SA-479	SA-312	SA-312	SA-249	SA-213	SA-182 ASME B16.5	SA-351 CG3M UNS J932999	SA-182 ASME B16.11
7	S31254	AVESTA 254 SMO	SA-240	SA-479	SA-312	SA-312	SA-249	SA-213	SA-182 ASME B16.5	SA-351 CK3MCuN UNS J93254	SA-182 ASME B16.11
8	N08020	20 CB	SB-463	SB-473	SB-464	SB-729	SB-468	SB-729	SB-462 ASME B16.5	SA-351 CN7M UNS J95150	SB-366 ASME B16.11
9	N08367	AL-6XN	SB-688	SB-691	SB-675	SB-690	SB-676	SB-690	SB-564 ASME B16.5	SA-351 CN-3MN UNS J94651	SB-366 ASME B16.11
10	N06600	INCONEL 600	SB-168	SB-166	SB-517	SB-167	SB-516	SB-163 SB-167	SB-564 ASME B16.5		SB-366 ASME B16.11



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	UNS	MATERIAL	PLUGS & BUSHINGS	FORGED VALVES	CAST FITTINGS VALVES	LONG RADIUS ELBOWS	SHORT RADIUS ELBOWS	STUB ENDS REDUCERS CAPS	BOLTS STUDS CAPSCREWS	NUTS
1	S30400	304	ASME B16.11	SA-182	SA-351 CF8 ASME B16.5 UNS J92600	SA-403 ASME B16.9	SA-403 ASME B16.28	SA-403 ASME B16.9	SA-193, GR.B8	SA-194, GR.8
2	S30403	304L	ASME B16.11	SA-182	SA-351 CF3 ASME B16.5 UNS J92500	SA-403 ASME B16.9	SA-403 ASME B16.28	SA-403 ASME B16.9		
3	S31600	316	ASME B16.11	SA-182	SA-351 CF8M ASME B16.5 UNS J92500	SA-403 ASME B16.9	SA-403 ASME B16.28	SA-403 ASME B16.9	SA-193, GR.B8M	SA-194, GR.8M
4	S31603	316L	ASME B16.11	SA-182	SA-351 CF3M ASME B16.5 UNS J92800	SA-403 ASME B16.9	SA-403 ASME B16.28	SA-403 ASME B16.9		
5	S31700	317	ASME B16.11	SA-182	SA-351 CG8M UNS J93000	SA-403 ASME B16.9	SA-403 ASME B16.28	SA-403 ASME B16.9		
6	S31703	317L	ASME B16.11	SA-182	SA-351 CG3M UNS J92999	SA-403 ASME B16.9	SA-403 ASME B16.28	SA-403 ASME B16.9		
7	S31254	AVESTA 254 SMO	ASME B16.11		SA-351 CK3MCuN UNS J93254	SA-403 ASME B16.9	SA-403 ASME B16.28	SA-403 ASME B16.9		
8	N08020	20 CB	ASME B16.11	SB-462	SA-351 CN7M UNS J95150	SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9		
9	N08367	AL-6XN	ASME B16.11	SB-564	SA-351 CN-3MN UNS J94651	SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9		
10	N06600	INCONEL 600	ASME B16.11	SB-564		SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9		

	UNS	MATERIAL	PLATE SHEET STRIP	ROD BAR SHAPES	WELDED PIPE	SEAMLESS PIPE	WELDED TUBING	SEAMLESS TUBING	FORGED FLANGES	CAST FLANGES	FORGED SCREWED FITTINGS
11	N06625	INCONEL 625, GR.1	SB-443	SB-446	SB-705	SB-444	SB-704	SB-444	SB-564 ASME B16.5		SB-366 ASME B16.11
12	N08800	INCONEL 800	SB-409	SB-408	SB-514	SB-407	SB-515	SB-163 SB-407	SB-564 ASME B16.5		SB-366 ASME B16.11
13	N10276	HASTELLOY C-276	SB-575	SB-574	SB-619	SB-622	SB-626	SB-622	SB-564 ASME B16.5	SA-494 CW-12MW/C WELDING NOT PERMITTED UNS N30002	SB-366 ASME B16.11
14	N06022	HASTELLOY C-22	SB-575	SB-574	SB-619	SB-622	SB-626	SB-622	SB-564 ASME B16.5	SA-494 CX2MW UNS N26022	SB-366 ASME B16.11
15	N04400	MONEL 400	SB-127	SB-164		SB-165		SB-163 SB-165	SB-564 ASME B16.5		SB-366 ASME B16.11
16	R50400	TITANIUM (GR.2)	SB-265	SB-348	SB-862	SB-861	SB-338	SB-338	SB-381 ASME B16.5	SB-367, C-2 WELDING NOT PERMITTED	SB-366 ASME B16.11
17	S17400	17-4PH		SA-564 TYPE 630 WELDING NOT PERMITTED							
18		CARBON STEEL (STRUCT)	A-36	A-36	A-53						
19		CARBON STEEL (PRESS)	SA-285, GR.C SA-516, GR.70	SA-36	SA-53	SA-53 SA-106	SA-178 SA-214	SA-179 SA-210	SA-105 ASME B16.5	SA-216, WCA ASME B16.5	SA-105 ASME B16.11
20	N08904	904L	SB-625	SB-649	SB-673	SB-677	SB-674	SB-677			SB-366
21	S31803	2205	SA-240	SA-479	SA-790	SA-790	SA-789	SA-789	SA-182 ASME B16.5		SA-182 ASME B16.11

	UNS	MATERIAL	PLUGS & BUSHINGS	FORGED VALVES	CAST FITTINGS VALVES	LONG RADIUS ELBOWS	SHORT RADIUS ELBOWS	STUB ENDS REDUCERS CAPS	BOLTS STUDS CAPSCREWS	NUTS
11	N06625	INCONEL 625, GR.1	ASME B16.11	SB-564		SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9		
12	N08800	INCONEL 800	ASME B16.11	SB-564		SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9		
13	N10276	HASTELLOY C-276	ASME B16.11		SA-494 CW-12MW/C WELDING NOT PERMITTED UNS N30002	SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9		
14	N06022	HASTELLOY C-22	ASME B16.11	SB-564	SA-494 CX2MW UNS N26022	SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9		
15	N04400	MONEL 400	ASME B16.11	SB-564		SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9	SB-164	
16	R50400	TITANIUM (GR.2)	ASME B16.11	SB-381	SB-367 WELDING NOT PERMITTED	SB-366	SB-366 ASME B16.28	SB-366 ASME B16.9		
17	S17400	17-4PH								
18		CARBON STEEL (STRUCT)							A-325	A-325
19		CARBON STEEL (PRESS)	ASME B16.11	SA-105	SA-216, WCA ASME B16.5	ASME B16.9	ASME B16.28	ASME B16.9	SA-193, GR.B7	SA-194, GR.2H
20	N08904	904L				SB-366	SB-366	SB-366		
21	S31803	2205		SA-182		SA-815	SA-815	SA-815		