

ASME (ASTM)		K S		JIS		DIN
SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
A-27	Mid-to Medium-Strength Carbon-Steel Castings for General Application.					
A-27	GR.60-30	D 4101	SC 42	G 5101	SC 42	DIN 1681 GS-38
A-27	GR.65-35	D 4101	SC 46	G 5101	SC 46	DIN 1681 GS-45
A-27	GR.70-36	D 4101	SC 49	G 5101	SC 49	DIN 1681 GS-52
A-36	Structural Steel.					
A-36		D 3503	SS34	G 3101	SS 330	DIN 17100 Ust33,
A-36						37-2,42-1,44-3,52-3
A-36		D 3503	SS41	G 3101	SS 400	
A-36		D 3503	SS50	G 3101	SS 490	
A-36		D 3503	SS55	G 3101	SS 540	
A-47	Malleable Iron Castings.					
A-47	NO.32510	D 4303	BMC 35	G 5702	FCMB 340	DIN 1692 GTS-35-10
A-47	NO.35018	D 4303	BMC 37	G 5702	FCMB 360	DIN 1692 GTS-45
A-48	Gray Iron Castings.					
A-48	CL NO.20A-C	D 4301	GC 10	G 5501	FC 100	DIN 1691 GG-10
A-48	CL NO.30A-C	D 4301	GC 15	G 5501	FC 150	DIN 1691 GG-15
A-48	CL NO.35A-C	D 4301	GC 20	G 5501	FC 200	DIN 1691 GG-20
A-48	CL NO.40A-C	D 4301	GC 25	G 5501	FC 250	DIN 1691 GG-25
A-53	Pipe, Steel, Black and Hot-dippid, Zinc-Coated Welded and Seamless.					
A-53	TYPE S.GR.A	D 3562	SPPS 38-S	G 3454	STPG 370-S	DIN 1629 St 35, 37
A-53	TYPE S.GR.B	D 3562	SPPS 42-S	G 3454	STPG 410-S	DIN 1639 St 42, 45
A-53	TYPE E.GR.A	D 3562	SPPS 38-E	G 3454	STPG 38-E	DIN 1629 St 37, 37-2
A-53	TYPE E.GR.B	D 3562	SPPS 42-E	G 3454	STPG 42-E	DIN 1629 St 42, 42-2
SA-105	Forgings Carbon Steel for Piping Components.					
SA-105		D 3710	SF 50	G 3201	SF 490A	DIN 17100R SEW 550-20Mn5 970En5
SA-105		D 3710	SF 45	G 3201	SF 440A	DIN 17100R St 46.2, C22N
SA-105		D 3752	SM 30C	G 4051	S 30C	
SA-105		D 3752	SM 25C	G 4051	S 25C	
SA-106	Seamless Carbon Steel Pipe for High-Temperature Service.					
SA-106	GR. A	D 3504	SPPH 38	G 3455	STS 38	DIN 1629 St 35.4
SA-106		D 3570	SPPH 38S	G 3456	STPT 370S	DIN 17175 St 35.8

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SA-106	GR. B	D 3504	SPPH 42	G 3455	STS 42	DIN 1629 St 45.4
SA-106		D 3570	SPPH 42S	G 3456	STPT 410S	DIN 17175 St 45.8
SA-106	GR. C	D 3504	SPPH 49	G 3455	STS 49	DIN 1629 St 52.4,
SA-106						SEW 610-17Mn4,
SA-106						SEW 610-19Mn5
SA-106		D 3570	SPHT 49S	G 3456	STPT 480S	DIN 17175 St 45.8,
SA-106						SEW 610-17Mn4,
SA-106						SEW 610-19Mn5
A-120	Black and Hot-Dipped, Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Ordinary Uses.					
A-120		D 3507	SPP-B	G 3452	SGP-B	DIN 2440 St 33-1
A-120		D 3507	SPP-E	G 3452	SGP-E	
A-126	Gray Iron Castings for Valves, Flanges, and Pipe Fittings.					
A-126	CL A	D 4301	GC 15	G 5501	FC 150	DIN 1691 GG-15
A-126	CL B	D 4301	GC 20	G 5501	FC 200	DIN 1691 GG-20
A-126	CL C	D 4301	GC 25	G 5501	FC 250	DIN 1691 GG-25
A-126		D 4301	GC 30	G 5501	FC 300	DIN 1691 GG-30
A-131	Structural Steel for Ships.					
A-131	GR. A	D 3515	SWS 41A	G 3106	SM 400A	DIN 17100 Ust 37-2
A-131	GR. B	D 3515	SWS 41B	G 3106	SM 400B	DIN 17100 Ust 37-3, 42-3
A-131	GR. C	D 3515	SWS 41C	G 3106	SM 400C	DIN 17135 Ast 41
SA-134	Electric-Fusion(Arc)-Welded Steel Plate Pipe.					
SA-134	GR. A-D	D 3583	SPW 41	G 3457	STPY 400	DIN 1626 2 EFW
A-139	Electric-Fusion(Arc)-Welded Steel Plate Pipe.(Sizes 4 inch and over)					
A-139	GR. A	D 3583	SPW 41	G 3457	STPY 400	DIN 1626 St 33
SA-178	Electric-Resistance-Welded Carbon Steel Boiler Tubes.					
SA-178	GR. A	D 3563	STBH35	G 3461	STB 340	DIN 17175 St 35.8, 37.8
SA-178	GR. B	D 3563	STBH42 EC	G 3461	STB 410 EC	DIN 17175 St 45.8, 42.8
SA-179	Seamless Cold-Drawn Low-Carbon Steel Heat Exchanger and Condenser Tubes.					
SA-179		D 3563	STBH33 SC	G 3461	STB 340 SC	DIN 2391 ST 35GBK
SA-181	Forgings Carbon Steel for General Purpose Pipings.					
SA-181	CL 60	D 3710	SF 40	G 3201	SF 390	DIN 17100R St 42.2

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SA-181	CL 70	D 3710	SF 45	G 3201	SF 440	DIN 17100R St 46.2,
SA-181						DIN 17200 C 22 N
SA-181		D 3710	SF 50	G 3201	SF 490	970En5
SA-181		D 3710	SF 55	G 3201	SF 540	SEW 550-20Mn5
SA-182	Forged or Rolled Alloy Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Services.					
SA-182	F 1	D 4100	SFHV 12B	G 3213	SFHV 12B	SEW 550-22Mo4,
SA-182						SEW 620 15Mo3
SA-182	F 2	D 4100	SFHV 13B	G 3213	SFHV 13B	SEW 610 13CrMo44.
SA-182						SEW 620 13CrMo44
SA-182	F 5	D 4100	SFHV 25	G 3213	SFHV 25	VaTuVWb 1.1207-12CrMo195
SA-182	F 9	D 4100	SFHV 26B	G 3213	SFHV 26B	Wst.Nr1.7386-12CrMo9 1
SA-182	F 11	D 4100	SFHV 23B	G 3213	SFHV 23B	SEW 610 13CrMo44,
SA-182						SEW 620 13CrMo44
SA-182	F 12	D 4100	SFHV 22B	G 3213	SFHV 22B	SEW 610 13CrMo44,
SA-182						SEW 620 13CrMo44
SA-182	F 22	D 4100	SFHV 24B	G 3213	SFHV 24B	SEW 610-10CrMo9 10
SA-182	F 304	D 3214	STSF 304	G 3214	SUSF 304	SEW 680-5CrNi 18 10,
SA-182						DIN 17440-5CrNi 18 9
SA-182	F 304H	D 3214	STSF 304H	G 3214	SUSF 304H	
SA-182	F 304L	D 3214	SFHV 304L	G 3214	SUSF 304L	DIN 17440-2CrNi18 9
SA-182	F 310	D 3214	STSF 310	G 3214	SRSF 310	
SA-182	Forged or Rolled Alloy Steel Pipe Flanges, Fittings, and Valves and Parts for High-Temperature Service.					
SA-182	F 316	D 3214	STSF 316	G 3214	SUSF 316	DIN 17440-5CrNiMo 18 10, DIN 17440-5CrNiMo 18 12
SA-182	F 316H	D 3214	STSF 316H	G 3214	SUSF 316H	
SA-182	F 316L	D 3214	STSF 316L	G 3214	SUSF 316L	DIN 17440-SCrNiMo 18 10, DIN 17440-2CrNiMo 18 12
SA-182	F 321	D 3214	STSF 321	G 3214	SUSF 321	DIN 17440-10CrNiTi 18 9, SEW 680-10CrNiTi 18 10
SA-182	F 321H	D 3214	STSF 321H	G 3214	SUSF 321H	
SA-182	F 347	D 3214	STSF 347	G 3214	SUSF 347	DIN 17440-10CrNiNb 18 9, SEW 680-10CrNiNb 18 10
SA-182	F 347H	D 3214	STSF 347H	G 3214	SUSF 347H	SEW 670-8 CrNiNb 16 13
SA-192	Seamless Carbon Steel Boiler Tubes for High-Pressure Services.					
SA-192		D 3563	STBH 35 SC	G 3461	STB 35 SC	DIN 17175 St 35.8 37.8

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SA-192		D 3563	STBH 35 SH	G 3461	STB 35 SH	DIN 17175 St 35.8 37.8
SA-192		D 3563	STBH 33 SH	G 3461	STB 33 SH	DIN 17175 St 35.8
SA-193	Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Services.					
SA-193	GR. B5	D 3755	SNB 5	G 4107	SNB 5	
SA-193	GR. B7	D 3755	SNB 7	G 4107	SNB 7	DIN 17240-24CrMo5
SA-193	GR. B16	D 3755	SNB 16	G 4107	SNB 16	DIN 17240-21CrMo V55
SA-194	Carbon and Alloy steel Nuts for Bolts for High-Pressure and High-Temperature Services.					
SA-194	GR. 2H	D 3752	SM 45C	G 4051	S 45C	DIN 17100 ST 50.2
SA-194	GR. 3	D 3755	SNB 5	G 4107	SNB 5	DIN 17240-24CrMo5
SA-194	GR. 4	D 3755	SNB 16	G 4107	SNB 16	DIN 17240-21CrMo V55
SA-199	Seamless Cold-Drawn Intermediate Alloy Steel Heat Exchanger and Condenser Tubes.					
SA-199	GR. T5	D 3752	STHA 25-SC, -SH	G 3462	STBA 25	Wst-Nr.1.7362-12CrMo19 5
SA-199	GR. T9	D 3752	STHA 26-SC, -SH	G 3462	STBA 26	Wst-Nr.1.7386-12CrMo9 1
SA-199	GR. T11	D 3752	STHA 23-SC,-SH	G 3462	STBA 23	DIN 17175-13CrMo44
SA-199	GR. T22	D 3752	STHA 24-SC,-SH	G 3462	STBA 24	DIN 17175-10CrMo9 10
SA-204	Pressure Vessel Plates, Alloy Steel, Molybdenum.					
SA-204	GR. A	D 3560	SBB 46M	G 3103	SB 450M	DIN 17155 15 Mo3
SA-204	GR. B	D 3560	SBB 49M	G 3103	SB 480M	VdTUV-wb1.201-16Mo5
SA-209	Seamless Carbon-Molybdenum Alloy Steel Boiler and Superheater Tubes.					
SA-209	GR. T1	D 3572	STHA 12-SC.-SH	G 3462	STBA 12-SC.-SH	DIN 17175 15Mo3
SA-209						Wst-Nr1.5423-16Mo5
SA-209	GR. T1a	D 3572	STHA 13-SC.-SH	G 3462	STBA 13-SC.-SH	
SA-210	Seamless Medium-Carbon Steel Boiler and Superheater Tubes.					
SA-210	GR. A1	D 3563	STBH 42-SC	G 3461	STB 410-SC	DIN 2391 St 45.2GBK
SA-210		D 3563	STBH 42-SC	G 3461	STB 410-SC	DIN 17175 St 42.8, DIN 17177 St 45.8
SA-213	Seamless Ferritic and Austenitic Alloy Steel Boiler, Superheater, and Heat-Exchanger Tubes.					
SA-213	GR. T2	D 3572	STHA 20-SC,SH	G 3462	STBA 20-SC,-SH	
SA-213	GR. T5	D 3572	STHA 24-SC,-SH	G 3462	STBA 25-SC,-SH	Wst-Nr1.7362-12CrMo19 5
SA-213	GR. T11	D 3572	STHA 22-SC,-SH	G 3462	STHA 23-SC,-SH	DIN 17175 13CrMo44
SA-213	GR. T12	D 3572	STHA 21-SC,-SH	G 3462	STHA 22-SC,-SH	DIN 17175 13CrMo44
SA-213	GR. T22	D 3572	STHA 23-SC,-SH	G 3462	STHA 24-SC,-SH	DIN 17175 10CrMo9 10

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-213	GR. TP304	D 3577	STS 304 TB-SC-SH	G 3463	SUS 304 TB-SC	DIN 2464 5CrNi18 9
SA-213		D 3577	STS 304 TB-SH	G 3463	SUS 304 TB-SH	SEW 680 5CrNi18 9
SA-213	GR. TP304H	D 3577	STS 304 HTB- SC,-SH	G 3463	SUS 304 HTB- SC,-SH	DIN 2462 5CrNi18 9
SA-213	GR. TP304L	D 3577	STS 304 LTB- SC	G 3463	SUS 304 LTB- SC	DIN 2464 2CrNi18 9
SA-213		D 3577	STS 304 LTB- SH	G 3463	SUS 304 LTB- SH	DIN 2464 2CrNi18 9
SA-213	GR. TP316	D 3577	STS 316 TB- SC	G 3463	SUS 316 TB- SC	DIN 2464 5CrNiMo18 10, DIN 2464 5CrNiMo18 12
SA-213		D 3577	STS 316 STB- SH	G 3463	SUS 316 STB- SH	DIN 2464 5CrNiMo18 10. DIN 2464 5CrNiMo18 12
SA-213	GR. TP316H	D 3577	STS 316 HTB-SC,-SH	G 3463	SUS 316 HTB-SC,-SH	
SA-213	GR. TP316L	D 3577	STS 316 LTB- SC	G 3463	SUS 316 LTB- SC	DIN 2464 2CrNiMo18 12
SA-213		D 3577	STS 316 LTB- SH	G 3463	SUS 316 LTB- SH	DIN 2462 2CrNiMo18 10, DIN 2462 2CrNiMo18 12
SA-213	GR. TP321	D 3577	STS 321 TB- SC	G 3463	SUS 321 TB- SC	DIN 2464 10CrNiTi18 9,
SA-213						SEW 680 10CrNiTi18 10
SA-213	GR. TP347	D 3577	STS 347 TB- SC	G 3463	SUS 347 TB- SC	DIN 2464 10CrNiNb18 9, SEW 680 10CrNiNb18 10
SA-213		D 3577	STS 347 HTB- SH	G 3463	SUS 347 HTB- SH	
SA-214	Electric-Resistance-Welded Carbon Steel Heat Exchanger and Condenser Tubes.					
SA-214		D 3563	STBH33-EC	G 3461	STB 320-EC	DIN 2393 St34.2GBK
SA-216	Carbon Steel Castings Suitable for Fusion Welding for High-Temperature Service.					
SA-216	GR. WCA	D 4101	SC 42	G 5101	SC 42	DIN 1681 GS-38
SA-216		D 4016	SCW42	G 5102	SCW42	DIN 1618 GS-38.3
SA-216		D 4107	SCPH 1	G 5151	SCPH 1	DIN 1681 GS-38,
SA-216						DIN 1681 GS-45
SA-216	GR.WCB	D 4101	SC 49	G 5101	SC 49	DIN 1681 GS-52
SA-216		D 4106	SCW49	G 5102	SCW49	DIN 1681 GS-45.3
SA-216		D 4107	SCPH 2	G 5151	SCPH 2	DIN 1681 GS-52,
SA-216						DIN 17254 GS-C52
SA-216	GR.WCC	D 4106	SCW49	G 5102	SCW49	DIN 1681 GS-45.3
SA-216		D 4107	SCPH 2	G 5151	SCPH 2	DIN 1681 GS-52,
SA-216						DIN 17245 GS-C52
SA-217	Martensitic Stainless Steel and Alloy Steel Castings for Pressure containing Parts Suitable for High-Temperature Service.					
SA-217	GR.WC 1	D 4107	SCPH11	G 5151	SCPH11	DIN 17245 GS-22Mo4
SA-217	GR.WC 6	D 4107	SCPH21	G 5151	SCPH21	DIN 17245 GS-17CrMo55

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-217	GR.WC 9	D 4107	SCPH32	G 5151	SCPH32	SEW 595 GS-12CrMo9 10
SA-217	GR.C 5	D 4107	SCPH61	G 5151	SCPH61	SEW 595 GS-12CrMo19 5
SA-226	Electric-Resistance-Welded Carbon Steel Boiler and Superheater Tubes for High Pressure Service.					
SA-226		D 3563	STBH35	G 3461	STB 340	DIN 17175 St 35.8,37.8
SA-226		D 3563	STBH42	G 3461	STB 410	DIN 17175 St 42.8,45.8
SA-234	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Elevated Temperature.					
SA-234	GR.WPA(W)					
SA-234	GR.WPB(W)					DIN St 35.8 Ws NO.305,
SA-234						DIN St 45.8 Ws NO.405
SA-234	GR.WPC(W)					
SA-240	Heat-Resisting Chrom. & Chrom.-Nickel Stainless Steel Plate, Sheet, & Strip for Fusion-Welded Unified Pressure Vessels.					
SA-240	Type 302	D 3705	STS 302	G 4304	SUS 302	SEW 680 12CrNi18 8
SA-240	Type 304	D 3705	STS 304	G 4304	SUS 304	DIN 17440 5CrNi18 9,18 10
SA-240	Type 304L	D 3705	STS 304L	G 4304	SUS 304L	DIN 17440 2CrNi18 9
SA-240	Type 309S	D 3705	STS 309S	G 4304	SUS 309S	
SA-240	Type 310S	D 3705	STS 310S	G 4304	SUS 310S	DIN 17440 15CrNiSi2520
SA-240	Type 316	D 3705	STS 316	G 4304	SUS 316	DIN 17440 5CrNiMo18 10, DIN 17440 5CrNiMo18 12
SA-240	Type 316L	D 3705	STS 316L	G 4304	SUS 316L	DIN 17440 2CrNiMo18 10, 12
SA-240	Type 321	D 3705	STS 321	G 4304	SUS 321	DIN 17440 10CrNiTi18 9, SEW 680 10CrNiTi18 10
SA-240	Type 347	D 3705	STS 347	G 4304	SUS 347	DIN 17440 10CrNiTi18 9
SA-240	Type 405	D 3705	STS 405	G 4304	SUS 405	DIN 17440 7CrAl13
SA-240	Type 410	D 3705	STS 410	G 4304	SUS 410	DIN 17440 10Cr13
SA-240	Type 429	D 3705	STS 429	G 4304	SUS 429	
SA-240	Type 430	D 3705	STS 430	G 4304	SUS 430	
SA-249	Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger and Condenser Tubes.					
SA-249	GR.TP304	D 3577	STS 304 TB-AC	G 3463	SUS 304 TB-AC	DIN 2465 5CrNi 18 9, SEW 680 SCrNi 18 10
SA-249	GR.TP304H	D 3577	STS 304 HTB-AC	G 3463	SUS 304 HTB-AC	
SA-249	GR.TP304L	D 3577	STS 304 LTB-AC	G 3463	SUS 304 LTB-AC	DIN 2465 2CrNi 18 9
SA-249	GR.TP316	D 3577	STS 316 TB-AC	G 3463	SUS 316 TB-AC	DIN 2465 5CrNiMo 18 10, DIN 2465 5CrNiMo 18 12
SA-249	GR.TP316H	D 3577	STS 316 HTB-AC	G 3463	SUS 316 HTB-AC	
SA-249	GR.TP316L	D 3577	STS 316 LTB-AC	G 3463	SUS 316 LTB-AC	DIN 2465 2CrNiMo 18 10, DIN 2465 2CrNiMo 18 12

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SA-249	GR.TP321	D 3577	STS 321 TB-AC	G 3463	SUS 321 TB-AC	DIN 2465 10CrNiTi 18 9, SEW 680 10CrNiTi 18 10
SA-249	GR.TP347	D 3577	STS 347 TB-AC	G 3463	SUS 347 TB-AC	DIN 2465 10CrNiNb 18 9
SA-263	Corrosion-Resisting Chromium Steel Clad Plate, Sheet and Strip.					
SA-263	405 CLAD			HP 1S	B-104	
SA-264	Stainless Chromium-Nickel Steel Clad Plate, Sheet, and Strip.					
SA-264	304 CLAD		B-104	HP 1S	B-104	
SA-266	Forging, Carbon steel, for Pressure Vessel Components.					
SA-266	CL 1	D 3710	SF 45	G 3201	SF 440	
SA-266	CL 2	D 3710	SF 50	G 3201	SF 490	
SA-268	Seamless and Welded Ferritic Stainless Steel Tubing for General Service.					
SA-268	GR.TP329	D 3577	STS329J1TB	G 3463	SUS329J1TB	DIN 2462 8CrNiMo275
SA-268	GR.TP410	D 3577	STS410TB	G 3463	SUS410TB	DIN 2462 10Cr13
SA-268	GR.TP430	D 3577	STS430TB	G 3463	SUS430TB	DIN 2462 8Cr17
SA-269	Seamless and Welded Austenitic Stainless Steel Tubing for General Service.					
SA-269	GR.TP304	D 3577	STS304TB	G 3463	SUS304TB	DIN 17440 5CrNi 18 9
SA-269	GR.TP304L	D 3577	STS304LTB	G 3463	SUS304LTB	DIN 17440 2CrNi 18 9
SA-269	GR.TP316	D 3577	STS316TB	G 3463	SUS316TB	DIN 17440 5CrNiMo 18 10
SA-269	GR.TP316L	D 3577	STS316LTB	G 3463	SUS316LTB	DIN 17440 2CrNiMo 18 10
SA-269	GR.TP321	D 3577	STS321TB	G 3463	SUS321TB	DIN 17440 10CrNiTi 18 9
SA-269	GR.TP347	D 3577	STS347TB	G 3463	SUS347TB	DIN 17440 10CrNiNb 18 9
SA-278	Gray Iron Castings for Pressure Containing Parts for Temperature up to 650 °F(345°C)					
SA-278	CL NO.20	D 4301	GC 15	G 5501	FC 150	DIN 1691 GG-15
SA-278	CL NO.30	D 4301	GC 20	G 5501	FC 200	DIN 1691 GG-20
SA-278	CL NO.35	D 4301	GC 25	G 5501	FC 250	DIN 1691 GG-25
SA-278	CL NO.40	D 4301	GC 30	G 5501	FC 300	DIN 1691 GG-30
SA-283	Low and Intermediate-Tensile Strength Carbon Steel Plates, Shapes and Bars.					
SA-283	GR. C	D 3503	SB 41	G 3101	SS 400	DIN 17100 Ust 37-1
SA-283	GR. D	D 3503	SB 41	G 3101	SS 400	DIN 17100 Ust 42-1
SA-285	Pressure Vessel Plates, Carbon Steel, Low and Intermediate-Tensile Strength.					
SA-285	GR. B	D 3560	SBB 35	G 3103	SB 340	
SA-285	GR. C	D 3560	SBB 42	G 3103	SB 410	DIN 17155 HI1.17Mn 4

ASME (ASTM)		K S		JIS		DIN
SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-296	Corrosion-Resistant Iron-Chromium, Iron-Chromium-Nickel, & Nickel Base Alloy Castings for General Application.					
SA-296	GR. CA-15	D 4103	SCS1 SCS1-CF	G 5121	SSC1 SSC1-CF	DIN 17445 G-12 Cr14
SA-296	GR. CA-40	D 4103	SCS1 SCS-CF	G 5121	SSC1 SSC-CF	DIN 17445 G-12 Cr14
SA-296		D 4103	SCS2 SCS1-CF	G 5121	SSC2 SSC1-CF	DIN 17445 G-20 Cr14
SA-296	GR. CF-3	D 4103	SCS19 SCS19-CF	G 5121	SSC19 SSC19-CF	
SA-296	GR. CF-3M	D 4103	SCS16 SCS16-CF	G 5121	SSC16 SSC16-CF	
SA-296	GR. CF-8	D 4103	SCS13 SCS13-CF	G 5121	SSC13 SSC13-CF	DIN 17445 G-6 CrNi 18 9, SEW 595-70 8CrNi 19 10
SA-296	GR. CF-8C	D 4103	SCS21 SCS21-CF	G 5121	SSC21 SSC21-CF	DIN 17445 G-7 CrNiMoNb 18 10, SEW 595-70G 8CrNiNb 19 10
SA-296	GR. CF-8M	D 4103	SCS14 SCS14-CF	G 5121	SSC14 SSC14-CF	DIN 17445 G-6 CrNiMo18 9
SA-296	GR. CF-20	D 4103	SCS12 SCS12-CF	G 5121	SSC12 SSC12-CF	DIN 17445 G-6CrNi 18 9
SA-296	GR. CH-20	D 4103	SCS17 SCS17-CF	G 5121	SSC17 SSC17-CF	
SA-296	GR. CK-20	D 4103	SCS18 SCS18-CF	G 5121	SSC18 SSC18-CF	
SA-296	GR. CN-7M	D 4103	SCS23 SCS23-CF	G 5121	SSC23 SSC23-CF	
SA-297	Heat-Resistant Iron-Chromium and Iron-Chromium-Nickel Alloy Castings for General Application.					
SA-297	GR. HC	D 4105	HRSC 2,-CF	G 5122	SCH 2.-CF	
SA-297	GR. HD	D 4105	HRSC 11,-CF	G 5122	SCH 11.-CF	
SA-297	GR. HE	D 4105	HRSC 17,-CF	G 5122	SCH 17.-CF	
SA-297	GR. HF	D 4105	HRSC 12,-CF	G 5122	SCH 12.-CF	
SA-297	GR. HH	D 4105	HRSC 13,-CF	G 5122	SCH 13.-CF	
SA-297	GR. HI	D 4105	HRSC 18	G 5122	SCH 18	
SA-297	GR. HK	D 4105	HRSC 21	G 5122	SCH 21	
SA-297	GR. HK40	D 4105	HRSC 22	G 5122	SCH 22	SEW 595-70G-35CrNi25 20
SA-297	GR. HN	D 4105	HRSC 19	G 5122	SCH 19	
SA-297	GR. HT	D 4105	HRSC 15	G 5122	SCH 15	
SA-297	GR. HU	D 4105	HRSC 20	G 5122	SCH 20	
SA-302	Manganese-Molybdenum and Manganese-Molybdenum-Nickel Alloy Steel Plates for Pressure Vessel.					
SA-302	GR. A	D 3538	SBV 1A	G 3119	SBV 1A	
SA-302	GR. B	D 3538	SBV 1B	G 3119	SBV 1B	
SA-302	GR. C	D 3538	SBV 2	G 3119	SBV 2	
SA-302	GR. D	D 3538	SBV 3	G 3119	SBV 3	
SA-307	Low Carbon Steel Externally and Internally Threaded Standard Fasteners.					

ASME (ASTM)		K S		JIS		DIN
SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-307	GR. B	D 3503	SM42	G 3101	SS 400	(B) DIN 267 B1.3-4.6
SA-307						(N) DIN 267 B1.4-5
SA-307		D 3752	SM 25C	G 4051	S 25C	(B) DIN 267 B1.35-6,
SA-307						DIN 17240 C35, CK35
SA-307						(N) DIN 267 B1.45,
SA-307						DIN 17100 St50-2
SA-312	Seamless and Welded Austenitic Stainless Steel Pipe.					
SA-312	GR.TP 304	D 3576	STS 304TP	G 3459	SUS 304TP	DIN 2462 5CrNi 18 9
SA-312	GR.TP 304H	D 3576	STS 304HTP	G 3459	SUS 304HTP	
SA-312	GR.TP 304L	D 3576	STS 304LTP	G 3459	SUS 304LTP	DIN 2463 2CrNi 18 9
SA-312	GR.TP 309	D 3576	STS 309STP	G 3459	SUS 309STP	
SA-312	GR.TP 310	D 3576	STS 310STP	G 3459	SUS 310STP	
SA-312	GR.TP 316	D 3576	STS 316TP	G 3459	SUS 316TP	DIN 2462 5CrNiMo 18 10, DIN 2462 5CrNiMo 18 12
SA-312	GR.TP 316H	D 3576	STS 316HTP	G 3459	SUS 316HTP	
SA-312	GR.TP 316L	D 3576	STS 316LTP	G 3459	SUS 316LTP	DIN 2462 2CrNiMo 18 10, DIN 2462 2CrNiMo 18 12
SA-312	GR.TP 321	D 3576	STS 321TP	G 3459	SUS 321TP	SEW 680 10CrNiTi 18 10, DIN 2462 10CrNiTi 18 9
SA-312	GR.TP 321H	D 3576	STS 321HTP	G 3459	SUS 321HTP	
SA-312	GR.TP 347	D 3576	STS 347TP	G 3459	SUS 347TP	DIN 2462 10CrNiNb 18 10, SEW 680 10CrNiNb 18 9
SA-312	GR.TP 347H	D 3576	STS 347HTP	G 3459	SUS 347HTP	SEW 670 8CrNiNb 16 13
SA-320	Alloy Steel Bolting Materials for Low-Temperature Service.					
SA-320	GR. B8	D 3706	STS 304B	G 4303	SUS 304B	SEW 680 5CrNi 18 10 A2
SA-320	GR. B8C	D 3706	STS 347B	G 4303	SUS 347B	SEW 680 10CrNiNb 18 10
SA-320	GR. B8M	D 3706	STS 316B	G 4303	SUS 316B	DIN 267 4A
SA-320	GR. B8T	D 3706	STS 321B	G 4303	SUS 321B	SEW 680 10CrNiTi 18 10
SA-325	High-Strength Bolts Structural Steel Joints, Including Suitable Nuts and Plain Hardened Washers					
SA-325	Type 1	D 3752	SM 35C	G 4051	S 35C	(B) DIN 267 B1.36,6, DIN 17240 C45, DIN 17240 CK35
SA-325						(N) DIN 17100 St50-2
SA-333	Seamless and Welded Steel Pipe for Low-Temperature Service.					
SA-333	GR. 1	D 3569	SPLT39-S,-E	G 3460	STPL 380-S,E	SEW 680 TTSt 35N
SA-333	GR. 3	D 3569	SPLT46	G 3460	STPL 450	SEW 680 10Ni14
SA-333	GR. 6	D 3569	SPLT39-S,-E	G 3460	STPL 380-S,-E	SEW 680 TTSt 35N

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-334	Seamless and Welded Carbon and Alloy Steel Tubes for Low-Temperature Service.					
SA-334	GR. 1	D 3571	STLT39-S,-E	G 3464	STBL 380-S,-E	SEW 680 TTSt 35N
SA-334	GR. 3	D 3571	STLT46-SC.SH	G 3464	STBL 450-SC, SH	SEW 680 10Ni14
SA-334	GR. 6	D 3571	STLT39-S	G 3464	STBL 380-S	SEW 680 TTSt 35N
SA-335	Seamless Ferritic Alloy Steel Pipe for High Temperature Service.					
SA-335	GR. P1	D 3573	SPA 12	G 3458	STPA 12	DIN 17175 15Mo3
SA-335	GR. P5	D 3573	SPA 25	G 3458	STPA 25	VdTUVWB 1.207-12CrMo19 5
SA-335	GR. P9	D 3573	SPA 26	G 3458	STPA 26	Wst-Nr1.7386-12CrMo9 1
SA-335	GR. P11	D 3573	SPA 23	G 3458	STPA 23	DIN 17175 13CrMo44
SA-335	GR. P12	D 3573	SPA 22	G 3458	STPA 22	DIN 17175 13CrMo44
SA-335	GR. P22	D 3573	SPA 24	G 3458	STPA 24	DIN 17175 10CrMo9 10
SA-336	Alloy Steel Forgings for Seamless Drum, Heads, and Other Pressure Vessels.					
SA-336	F 304	D 3214	STSF 304	G 3214	SUSF 304	DIN 17440 5CrNi18 9, SEW 680 5CrNi18 10
SA-336	F 310	D 3214	STSF 310	G 3214	SUSF 310	
SA-336	F 316	D 3214	STSF 316	G 3214	SUSF 316	DIN 17440 5CrNiMo18 10,
SA-336						DIN 17440 5CrNiMo18 12
SA-336	F 321	D 3214	STSF 321	G 3214	SUSF 321	DIN 17440 10CrNiTi18 9,
SA-336						SEW 680 10CrNiTi18 10
SA-336	F 347	D 3214	STSF 347	G 3214	SUSF 347	DIN 17440 10CrNiNb18 9,
SA-336						SEW 680 10CrNiTi18 10
SA-351	Austenitic Steel Castings for High-Temperature Service.					
SA-351	GR. CF3	D 4103	SSC 19A	G 5121	SCS 19A	
SA-351	GR. CF3M	D 4103	SSC 16A	G 5121	SCS 16A	
SA-351	GR. CF8	D 4103	SSC 13A	G 5121	SCS 13A	SEW 595-70G 8CrNi9 10,
SA-351						DIN 17445G 6CrNi18 9
SA-351	GR. CF8C	D 4103	SSC 21	G 5121	SCS 21	SEW 595-70G 6CrNiNb19 10, DIN 17445G 6CrNiMoNb18 10
SA-351	GR. CF8M	D 4103	SSC 14A	G 5121	SCS 14A	
SA-351	GR. CH20	D 4103	SSC 17	G 5121	SCS 17	
SA-351	GR. CK20	D 4103	SSC 18	G 5121	SCS 18	
SA-351	GR. CN7M	D 4103	SSC 23	G 5121	SCS 23	
SA-352	Ferritic Steel Castings for Pressure Containing Parts Suitable for Low-Temperature Service.					

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-352	GR. LCB	D 4111	SCPL 1	G 5152	SCPL 1	SEW 685GS-CK24
SA-352	GR. LCC	D 4111	SCPL 1	G 5152	SCPL 1	SEW 685GS-CK24
SA-352	GR. LC1	D 4111	SCPL 11	G 5152	SCPL 11	SEW 685GS-26CrMo4
SA-352	GR. LC2	D 4111	SCPL 21	G 5152	SCPL 21	
SA-352	GR. LC3	D 4111	SCPL 31	G 5152	SCPL 31	SEW 685GS 10Ni14
SA-356	Heavy-Walled Carbon and Low-Alloy Steel Castings for Steam Turbines.					
SA-356	GR. 1	D 4107	SCPH 2	G 5151	SCPH 2	DIN 1681 GS-52, DIN 17245 GS-C25
SA-356	GR. 2	D 4107	SCPH 11	G 5151	SCPH 11	DIN 17245GS-22Mo4
SA-356	GR. 6	D 4107	SCPH 21	G 5151	SCPH 21	DIN 17245GS-17CrMo55
SA-356	GR. 9	D 4107	SCPH 23	G 5151	SCPH 23	DIN 17245GS-17CrMo5 11
SA-356	GR. 10	D 4107	SCPH 32	G 5151	SCPH 32	SEW 595GS-12CrMo9 10
SA-369	Carbon Ferritic Alloy Steel Forged and Bored Pipe for High-Temperature Service.					
SA-369	GR. FP1	D 3573	SPA 10	G 3458	STPA 12	DIN 17175 15Mo3, Wst-Nr1.5423 16CrMo3
SA-369	GR. FP12	D 3573	SPA 21	G 3458	STPA 22	DIN 17175 13CrMo44
SA-369	GR. FP11	D 3573	SPA 22	G 2458	STPA 23	DIN 17175 13CrMo44
SA-369	GR. FP22	D 3573	DPA 23	G 3458	STPA 44	DIN 17175 10CrMo9 10
SA-369	GR.FP5	G 3573	SPA 24	G 3458	STPA 25	VdTUV wbl.1207 12CrMo19 5
SA-369	GR.FP9	D 3573	SPA 25	G 3458	STPA 26	Wst-Nr1.7386 12CrMo9 1
SA-387	Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum					
SA-387	GR.2CL1	D 3543	SCMV 1A	G 4109	SCMV 1A	DIN 17155 13CrMo44
SA-387	GR.2CL2	D 3543	SCMV 1NT	G 4109	SCMV 1NT	
SA-387	GR.5CL1	D 3543	SCMV 6A	G 4109	SCMV 6A	
SA-387	GR.5CL2	D 3543	SCMV 6NT	G 4109	SCMV 6NT	
SA-387	GR.11CL1	D 3543	SCMV 3A	G 4109	SCMV 3A	DIN 17155 13CrMo44
SA-387	GR.11CL2	D 3543	SCMV 3NT	G 4109	SCMV 3NT	
SA-387	GR.12CL1	D 3543	SCMV 2A	G 4109	SCMV 2A	DIN 17155 13CrMo44
SA-387	GR.12CL2	D 3543	SCMV 2NT	G 4109	SCMV 2NT	DIN 17155 13CrMo44
SA-387	GR.21CL1	D 3543	SCMV 5A	G 4109	SCMV 5A	VdTUV wbl 1207 12CrMo19 5
SA-387	GR.21CL2	D 3543	SCMV 5NT	G 4109	SCMV 5NT	VdTUV wbl 1207 12CrMo19 5
SA-387	GR.22CL1	D 3543	SCMV 4A	G 4109	SCMV 4A	VdTUV wbl 130 10CrMo9 10
SA-387	GR.22CL2	D 3543	SCMV 4NT	G 4109	SCMV 4NT	VdTUV wbl 404 12CrMo9 10

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-395	Ferritic Ductile Iron Pressure Retaining Castings for Use at Elevated Temperatures					
SA-395		D 4302	GCD 40	G 5502	FCD 40	DIN 1693 GGG-40
SA-395		D 4302	GCD 50	G 5502	FCD 45	DIN 1693 GGG-50
SA-403	Wrought Austenitic Stainless Steel Pipe Fittings.					
SA-403	GR. WP304					5CrNi18 9 WSN 4301
SA-426	Centrifugally Cast Ferritic Alloy Steel Pipe for High-Temperature Service.					
SA-426	GR. CP1	D 4112	SCPH 11-CF	G 5202	SCPH 11-CF	
SA-426	GR. CP12	D 4112	SCPH 21-CF	G 5202	SCPH 21-CF	
SA-426	GR. CP22	D 4112	SCPH 32-CF	G 5202	SCPH 32-CF	
SA-426	GR. CPCA15	D 4103	SSC 1-CF	G 5121	SCS 1-CF	DIN 17445G 12Cr14
SA-430	Austenitic Steel Forged and Bored Pipe for High-Temperature Service.					
SA-430	GR.FP304	D 3576	STS 304TP	G 3459	STS 304TP	DIN 2462 5CrNi 18 9,
SA-430						SEW 680 5CrNi18 10
SA-430	GR.FP304H	D 3576	STS 304HTP	G 3459	STS 304HTP	DIN 2462 5CrNiMo18 10, DIN 2462 5CrNiMo18 12
SA-430	GR.FP316	D 3576	STS 316TP	G 3459	STS 316TP	
SA-430	GR.FP316H	D 3576	STS 316HTP	G 3459	STS 316HTP	
SA-430	GR.FP321	D 3576	STS 321TP	G 3459	STS 321TP	DIN 2462 10CrNiTi18 9, SEW. 680 10CrNiTi18 10
SA-430	GR.FP321H	D 3576	STS 321HTP	G 3459	STS 321HTP	
SA-430	Austenitic Steel Forged and Bored Pipe for High-Temperature Service.					
SA-430	GR. FP347	D 3576	STS 347TP	G 3459	SUS 347TP	DIN 2462 10CrNiNb18 9, SEW 680 10CrNiNb18 10
SA-447	Chromium-Nickel-Iron Alloy Castings (25-12 Class)for High-Temperature Service					
SA-447	TYPE II	D 4105	HRSC 13	G 5122	SCH 13	
SA-451	Centrifugally Cast Austenitic Steel Pipe for High-Temperature Service					
SA-451	GR. CPF8	D 4103	SSC 13,-CF	G 5121	SCS 13,-CF	DIN 17445G 6CrNi18 9,
SA-451						SEW 595-70G 8CrNi9 10
SA-451	GR. CPF8M	D 4103	SSC 14,-CF	G 5121	SCS 14,-CF	
SA-451	GR. CPH20	D 4103	SSC 17,-CF	G 5121	SCS 17,-CF	
SA-451	GR. CPK20	D 4103	SSC 18,-CF	G 5121	SCS 18,-CF	
SA-451	GR. CPF8C	D 4103	SSC 21,-CF	G 5121	SCS 21,-CF	DIN 17445G 7CrNiMoNb18 10, SEW 59 5-70G 8CrNiNb19 10
SA-508	Quenched and Tempered Vacuum-Treated Carbon and Alloy Steel Forgings for Pressure Vessels.					
SA-508	CL 1	D 4113	SFVW 1	G 3212	SFVW 1	SEW 550 20Mn5

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-508	CL 2	D 4113	SFVW 2	G 3212	SFVW 2	SEW 640 22NiMoCr37
SA-508	CL 3	D 4113	SFVW 3	G 3212	SFVW 3	SEW 640 20MnMoNi55
SA-515	Carbon Steel Plates for Pressure Vessels for Intermediate and Higher-Temperature Service.					
SA-515	GR. 55	D 3560	SBB 35	G 3103	SBB 35	DIN 17155 H11
SA-515	GR. 60	D 3560	SBB 42	G 3103	SBB 42	DIN 17155 H11
SA-515	GR. 65	D 3560	SBB 46	G 3103	SBB 46	DIN 17155 H111, 17Mn4
SA-515	GR. 70	D 3560	SBB 49	G 3103	SBB 49	DIN 17155 19Mn5, VdTUV Wb 1.373 WB23
SA-516	Carbon Steel Plates for Pressure Vessels for Moderate and Lower-Temperature Service.					
SA-516	GR. 60	D 3521	SPPV 24	G 3115	SPV 24	SEW 089 Wst E26,
SA-516						SEW 089 Wst E29
SA-516		D 3540	SGV 42	G 3118	SGV 42	SEW 089 Wst E26,
SA-516						SEW 089 Wst E29
SA-516	GR. 65	D 3540	SGV 46	G 3118	SPV 46	SEW 089 Wst E32
SA-516	GR. 70	D 3521	SPPV 32	G 3115	SPV 32	SEW 089 Wst E32
SA-516		D 3540	SGV 49	G 3118	SGV 49	SEW 089 Wst E39,
SA-516						SEW 089 Wst E36
SA-20S (5)	Charpy V-Notch Testing Requirements for Steel Plates for Pressure Vessels.					
SA-20S (5)	GR60+SA-20S(5)	D 3541	SLA 124A	G 3126	SLA 24A	DIN 17136 Ast41 SEW 089 TTst E26.29
SA-20S (5)		D 3541	SLA 124B	G 3126	SLA 24B	DIN 17136 Ast41 SEW 089 TTst E26.29
SA-20S (5)	GR70+SA-20S(5)	D 3541	SLA 133A	G 3126	SLA 33A	DIN 17136 Ast45 SEW 089 TTst E32
SA-20S (5)		D 3541	SLA 133B	G 3126	SLA 33B	SEW 089 TTst E32
SA-524	Seamless Carbon Steel Pipe for Atmospheric and Lower Temperatures.					
SA-524	GR. I	D 3562	SPPS38-S	G 3454	STPG 370-S	DIN 1629 St-35
SA-524		D 3564	SPPH38	G 3455	STS 38	DIN 1629 St-35.4
SA-524	GR. II	D 3562	SPPS42-S	G 3454	STPG 410-S	DIN 1626 St-45,
SA-524						DIN 1626 St-42.2
SA-524		D 3564	SPPH42	G 3455	STS 42	DIN 1626 St-45.4
SA-533	Manganese-Molybdenum & Manganese-Molybdenum-Nickel Alloy Steel Plates. Quenched & Tempered, for Press. Vessels.					
SA-533	GR. ACL 1	D 3539	SQV 1A	G 3120	SQV 1A	DIN 17155 13CrMo44
SA-533	GR. ACL 2	D 3539	SQV 1B	G 3120	SQV 1B	
SA-533	GR. BCL 1	D 3539	SQV 2A	G 3120	SQV 2A	SEW 640 20MnMoNi55

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-533	GR. BCL 2	D 3539	SQV 2B	G 3120	SQV 2B	SEW 640 20 MnMoNi55
SA-533	GR. CCL 1	D 3539	SQV 3A	G 3120	SQV 3A	SEW 640 12 MnMoNi55
SA-533	GR. CCL 2	D 3539	SQV 3B	G 3120	SQV 3B	
SA-536	Ductile Iron Castings					
SA-536	GR.60-40-18	D 4302	GCD 40	G 5502	FCD 40	DIN 1693 GGG-42
SA-536	GR.65-45-12	D 4302	GCD 45	G 5502	FCD 45	DIN 1693 GGG-45
SA-537	Carbon-Manganese-Silicon Steel Plates,Heat Treated,for Pressure Vessels.					
SA-537	CL.1	D 3521	SPV 32	G 3115	SPV 32	SEW 089 Wst E32
SA-537		D 3521	SPV 36	G 3115	SPV 36	SEW 089 Wst E36,
SA-537						SEW 089 Wst E39
SA-537	CL.2	D 3521	SPV 46	G 3115	SPV 46	SEW 089 Wst E47
SA-537		D 3521	SPV 50	G 3115	SPV 50	SEW 089 Wst E51
SA-540	Alloy Steel Bolting Materials for Special Application.					
SA-540	GR.B21 CL.1	D 3723	SNB 21-1	G 4018	SNB 21-1	
SA-540	GR.B21 CL.2	D 3723	SNB 21-2	G 4018	SNB 21-2	
SA-540	GR.B21 CL.3	D 3723	SNB 21-3	G 4018	SNB 21-3	
SA-540	GR.B21 CL.4	D 3723	SNB 21-4	G 4018	SNB 21-4	
SA-540	GR.B21 CL.5	D 3723	SNB 21-5	G 4018	SNB 21-5	
SA-540	GR.B22 CL.1	D 3723	SNB 22-1	G 4018	SNB 22-1	
SA-540	GR.B22 CL.2	D 3723	SNB 22-2	G 4018	SNB 22-2	
SA-540	GR.B22 CL.3	D 3723	SNB 22-3	G 4018	SNB 22-3	
SA-540	GR.B22 CL.4	D 3723	SNB 22-4	G 4018	SNB 22-4	
SA-540	GR.B22 CL.5	D 3723	SNB 22-5	G 4018	SNB 22-5	
SA-540	GR.B23 CL.1	D 3723	SNB 23-1	G 4018	SNB 23-1	
SA-540	GR.B23 CL.2	D 3723	SNB 23-2	G 4018	SNB 23-2	
SA-540	GR.B23 CL.3	D 3723	SNB 23-3	G 4018	SNB 23-3	
SA-540	GR.B23 CL.4	D 3723	SNB 23-4	G 4018	SNB 23-4	
SA-540	GR.B23 CL.5	D 3723	SNB 23-5	G 4018	SNB 23-5	
SA-540	GR.B24 CL.1	D 3723	SNB 24-1	G 4018	SNB 24-1	
SA-540	GR.B24 CL.2	D 3723	SNB 24-2	G 4018	SNB 24-2	
SA-540	GR.B24 CL.3	D 3723	SNB 24-3	G 4018	SNB 24-3	

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-540	Alloy Steel Bolting Materials for Special Application.					
SA-540	GR B24.CL4	D 3723	SNB 24-4	G 4018	SNB 24-4	
SA-540	GR B24.CL5	D 3723	SNB 24-5	G 4018	SNB 24-5	DIN 17200 34CrNiMo6
SA-541	Steel Forgings Carbon and Alloy. Quenched and Tempered for Pressure Vessel Components.					
SA-541	CL.1	D 4109	SFV 1	G 3211	SFV 1	SEW 550 20Mn5
SA-541	CL.2	D 4109	SFV 2	G 3211	SFV 2	SEW 640 22NiMoCr37
SA-541	CL.3	D 4109	SFV 3	G 3211	SFV 3	SEW 640 20MnMoNi5
SA-556	Seamless Cold-Drawn Carbon Steel Feedwater Heater Tubes.					
SA-556	GR. A	D 3563	STBH35	G 3461	STB 340-SC	DIN2391 St35.2 2 GBK
SA-556	GR. B	D 3563	STBH42-SC	G 3461	STB 410-SC	DIN2391 St45.2 2 GBK
SA-557	Electric-Resistance-Welded Carbon Steel Feedwater Heater Tubes.					
SA-557	GR. A2	D 3563	STBH35-EC	G 3461	STB 340-EC	DIN2393 St37.2, 2NBK
SA-557	GR. B2	D 3563	STBH42-EC	G 3461	STB 410-EC	DIN2393 St42.2, 2NBK
SA-608	Centrifugally Cast Iron-Chromium-Nickel High-Alloy Tubing for Pressure Application at High Temperature.					
SA-608	GR.HC.30	D 4105	HRSC 2,-CF	G 5122	SCH 2, -CF	
SA-608	GR.HC.50	D 4105	HRSC 11,-CF	G 5122	SCH 11, -CF	
SA-608	GR.HE.35	D 4105	HRSC 17,-CF	G 5122	SCH 17, -CF	
SA-608	GR.HF.30	D 4105	HRSC 12,-CF	G 5122	SCH 12, -CF	
SA-608	GR.HH.33	D 4105	HRSC 13,-CF	G 5122	SCH 13, -CF	
SA-608	GR.HI.35	D 4105	HRSC 18,-CF	G 5122	SCH 18, -CF	
SA-608	GR.HK.30	D 4105	HRSC 21,-CF	G 5122	SCH 21, -CF	
SA-608	GR.HK.40	D 4105	HRSC 22,-CF	G 5122	SCH 22, -CF	SEW 595-70G35CrNi25 20
SA-608	GR.HN.40	D 4105	HRSC 19,-CF	G 5122	SCH 19, -CF	
SA-608	GR.HT.50	D 4105	HRSC 20,-CF	G 5122	SCH 20, -CF	
SA-608	GR.HU.50	D 4105	HRSC 20,-CF	G 5122	SCH 20, -CF	
SA-662	Pressure Vessel Plates, Carbon-Manganese Steel for Moderate and Lower Temperature Service.					
SA-662	GR. A	D 3521	SPV 24	G 3115	SPV 24	
SA-662	GR. B	D 3521	SPV 32	G 3115	SPV 32	SEW 089 St E32
SA-662	GR C-SA20S(5)	D 3521	SLA 133	G 3115	SLA 33	SEW 089 TTst E26, 29
SA-675	Special Quality Hot-Rolled Carbon Steel Bars Subject to Mechanical Property-Requirements.					
SA-675	GR. 70	D 3752	SM 25C	G 4051	S 25C	DIN 267 B1.35.6,

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SA-675						DIN 17240 C35,CK35
ANSI	1010	D 3752	SM 10C	G 4051	S 10C	DIN 17210 C10,
ANSI						DIN 17210 CK10
ANSI		D 3752	SM 9CK	G 4051	S 9CK	DIN 17210 CK10
ANSI	1012	D 3752	SM 12C	G 4051	S 12C	DIN 17210 CK10
ANSI	1015	D 3752	SM 15C	G 4051	S 15C	DIN 17210 CK5, C15
ANSI		D 3752	SM 15CK	G 4051	S 15CK	DIN 17210 CK15
ANSI	1017	D 3752	SM 17C	G 4051	S 17C	DIN 17210 CK15
ANSI	1020	D 3752	SM 20C	G 4051	S 20C	DIN 17210 C22
ANSI		D 3752	SM 20CK	G 4051	S 20CK	DIN 17210 CK22
ANSI	1023	D 3752	SM 22C	G 4051	S 22C	DIN 17210 C22, CK22
ANSI	1025	D 3752	SM 25C	G 4051	S 25C	DIN 17210 C22,CK22
ANSI	1029	D 3752	SM 28C	G 4051	S 28C	
ANSI	1030	D 3752	SM 30C	G 4051	S 30C	
ANSI	1034	D 3752	SM 33C	G 4051	S 33C	
ANSI	1035, 1037	D 3752	SM 35C	G 4051	S 35C	DIN 17200 C35
ANSI	1038	D 3752	SM 38C	G 4051	S 38C	DIN 17200 C35. CK35
ANSI	1039, 1040	D 3752	SM 40C	G 4051	S 40C	
ANSI	1042	D 3752	SM 43C	G 4051	S 43C	
ANSI	1043	D 3752	SM 43C	G 4051	S 43C	
ANSI	1045, 1046	D 3752	SM 45C	G 4051	S 45C	DIN 17200 C45. CK45
ANSI		D 3752	SM 48C	G 4051	S 48C	
ANSI	1049	D 3752	SM 50C	G 4051	S 50C	
ANSI	1050, 1053	D 3752	SM 53C	G 4051	S 53C	
ANSI	1055	D 3752	SM 55C	G 4051	S 55C	
ANSI	1060	D 3752	SM 58C	G 4051	S 58C	DIN 17200 C60.CK60
ANSI	1109, 1110	D 3752	SUM 11	G 4804	SUM 11	
ANSI	1112	D 3752	SUM 21	G 4804	SUM 21	
ANSI	1113	D 3752	SUM 22	G 4804	SUM 22	
ANSI	1117	D 3752	SUM 33	G 4804	SUM 33	
ANSI	1137	D 3752	SUM 41	G 4804	SUM 41	

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
ANSI	12L14	D 3752	SUM 24L	G 4804	SUM 24L	
ANSI	1141	D 3752	SUM 42	G 4804	SUM 42	
ANSI	1144	D 3752	SUM 43	G 4804	SUM 43	
ANSI	1212	D 3752	SUM 21	G 4804	SUM 21	
ANSI	4130	D 3711	SUM 430	G 4105	SCM 430	DIN 17218 25CrMo4
ANSI	4135	D 3711	SUM 435	G 4105	SCM 435	DIN 17200 35CrMo4
ANSI	4140	D 3711	SUM 440	G 4105	SCM 440	DIN 17225 42CrMo4
SB-15	Free-Cutting Brass Rod, Bar and Shapes for Use in Screw Machines.					
SB-15	C36000	D 5101	MBsBD1S, MBsBE1S	H 3250	C 3601B	DIN 17660 CuZn36Pb3
SB-15		D 5101	MBsBD1, MBsBE1	H 3250	C 3602B	DIN 17660 CuZn36Pb3
SB-15		D 5101	MBsBD2S, MBsBE2S	H 3250	C 3603B	DIN 17660 CuZn39Pb3
SB-15		D 5101	MBsBD2, MBsBE2	H 3250	C 3604B	DIN 17660 CuZn39Pb3
SB-21	Naval Brass Rod. Bar, and Shapes					
SB-21	C 46200	D 5101	NBsBD1, NBsBE1	H 3250	C 4622B	DIN 1787 CuZn36Sn,
SB-21						DIN 17672 CuZn39Sn
SB-21	C 46400	D 5101	NBsBD2, NBsBE2	H 3250	C 4641B	DIN 1787 CuZn39Sn,
SB-21						DIN 17672 CuZn39Sn
SB-36	Brass Plate, Sheet, Strip, and Rolled Bar.					
SB-36	C 21000	D 5201	RBsS1	H 3100	C 2100P	DIN 17660 CuZn5
SB-36		D 5201	RBsT1	H 3100	C 2100R	DIN 17660 CuZn5
SB-36	C 22000	D 5201	RBsS2	H 3100	C 2200P	DIN 1787 CuZn10,
SB-36						DIN 17670 CuZn10
SB-36		D 5201	RBsT2	H 3100	C 2200R	DIN 1787 CuZn10,
SB-36						DIN 17670 CuZn10
SB-36	C 23000	D 5201	RBsS3	H 3100	C 2300P	DIN 1787 CuZn15,
SB-36						DIN 17670 CuZn15
SB-36		D 5201	RBsT3	H 3100	C 2300R	DIN 1787 CuZn15,
SB-36						DIN 17670 CuZn15
SB-36	C 24000	D 5201	RBsS4	H 3100	C 2400P	DIN 1787 CuZn20,
SB-36						DIN 17670 CuZn20
SB-36		D 5201	RBsT4	H 3100	C 2400R	DIN 1787 CuZn20,

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SB-36						DIN 17670 CuZn20
SB-36	C 26000	D 5201	BsS1	H 3100	C 2600P	DIN 1787 CuZn30,
SB-36						DIN 17670 CuZn30
SB-36		D 5201	BsT1	H 3100	C 2600R	DIN 1787 CuZn30,
SB-36						DIN 17670 CuZn30
SB-36	C 26800	D 5201	BsS2A	H 3100	C 2680P	DIN 1787 CuZn36,
SB-36						DIN 17670 CuZn36
SB-36		D 5201	BsT2A	H 3100	C 2680R	DIN 1787 CuZn36,
SB-36						DIN 17670 CuZn36
SB-36	C 27200	D 5201	BsS2B	H 3100	C 2720P	DIN 1787 CuZn33,
SB-36						DIN 17670 CuZn33
SB-36		D 5201	BsT2B	H 3100	C 2720R	DIN 1787 CuZn33,
SB-36						DIN 17670 CuZn33
SB-61	Stem or Valve Bronze Castings.					
SB-61	905	D 6002	BrC1,2,3,4,5	H 5111	BrC1,2,3,4,5	
SB-61			BrC1,2,3,4,5	H 5111	BC, 6,7	
SB-61	922	D 6002	BrC1,2,3,4,5	H 5111	BrC1,2,3,4,5	
SB-61			BrC1,2,3,4,5	H 5111	BC, 6,7	
SB-75	Seamless Copper Tube.					
SB-75	C 10200	D 5301	C 1020T	H 3300	C 1020T	DIN 1755-OF-Cu,
SB-75						DIN 1754,1755-OF-Cu
SB-75	C 12000	D 5301	C 1201T	H 3300	C 1201T	DIN 1755-SW-Cu,
SB-75						DIN 1754,1755-SW-Cu
SB-75	C 12200	D 5310	C 1220T	H 3300	C 1220T	DIN 1755-SF-Cu,
SB-75						DIN 1754,1755-SF-Cu
SB-103	Phosphor Bronze Plate, Sheet, Strip, and Rolled Bar (인청동판 조)					
SB-103	C 51000	D 5506	PBS1, PBS2	H 3110	C 510P	-
SB-103		D 5506	PBS1, PBS2	H 3100	C 510R	DIN 17662-CuSn6
SB-103	C 52100	D 5506	PBS3	H 3100	C 5212P	DIN 17662-CuSn8
SB-103		D 5508	PBS3	H 3100	C 5212P	DIN 17662-CuSn8
SB-103			PBT3			DIN 17670-CuSn8

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SB-111	Copper and Copper–Alloy Seamless Condenser Tubes and Ferrule Stock					
SB-111	C 44300	D 5301	C 4430T	H 3300	C 4430T	DIN 1755–CuSi28Sn,
SB-111						DIN 1754, 1755–CuSi28Sn
SB-111	C 68700	D 5301	C 6871T	H 3300	C 6871T	DIN 1755–CuSi28Al,
SB-111						DIN 1754, 1755–CuZn20Al
SB-111	C 70600	D 5301	C 7060T	H 3300	C 7060T	DIN 1755–CuNi10Fe,
SB-111						DIN 1754, 1755–CuNi10Fe
SB-111	C 71000	D 5301	C 7100T	H 3300	C 7100T	DIN 1755–CuNi20Fe,
SB-111						DIN 1754, 1755–CuNi20Fe
SB-111	C 71500	D 5301	C 7150T	H 3300	C 7150T	DIN 1755–CuNi30Fe,
SB-111						DIN 1754, 1755–CuNi30Fe
SB-121	Leaded Brass Plate, Sheet, Strip, and Rolled Bar.					
SB-121	C 35600	D 5201	PbBsS11	H 3100	C 3560P	
SB-121		D 5201	PbBsT11	H 3100	C 3560R	DIN 1787–CuZn36Pb1.5,
SB-121						DIN 17670–CuZn36Pb1.5
SB-121		D 5201	PbBsS14	H 3100	C 3561P	
SB-121		D 5201	PbBsT14	H 3100	C 3561R	DIN 1787–CuZn36Pb1.5,
SB-121						DIN 17670–CuZn36Pb1.5
SB-122	Copper–Nickel–Zinc Alloy(Nickel Silver)and Copper–Nickel Alloy Plate, Sheet, Strip, and Rolled Bar.					
SB-122	C 73500	D 6707	NST1	H 3110	C 7351P	DIN 17663–CuNi 18Zn20
SB-122		D 6707	NSP1	H 3110	C 7351R	DIN 17663–CuNi 18Zn20, DIN 17663–CuNi 18Zn20
SB-122	C 74500	D 6707	NST4	H 3100	C 7451P	DIN 17660–CuNi 12Zn24, DIN 17670–CuNi 12Zn24
SB-122		D 6707	NSP4	H 3100	C 7451R	DIN 17660–CuNi 12Zn24, DIN 17670–CuNi 12Zn24
SB-122	C 75200	D 6707	NST2	H 3100	C 7521P	DIN 17662–CuNi 12Zn24, DIN 17670–CuNi 12Zn24
SB-122		D 6707	NSP2	H 3100	C 7521R	DIN 17662–CuNi 12Zn24, DIN 17670–CuNi 12Zn24
SB-122	C 77000	D 5202	C7701S	H 3100	C 7701P	DIN 17663–CuNi12Zn30Pb
SB-122		D 5202	C7701T	H 3100	C 7701R	DIN 17663–CuNi12zn30Pb
SB-124	Copper and Copper Alloy Forging Rod, Bar, and Shapes.					
SB-124	C 37700	D 5101	FBsSE1	H 3250	C 3771B	DIN 17660–CuZn39Pb0.5
SB-124		D 5101	FBsSE2	H 3250	C 3712B	DIN 17670–CuZn40Pb2
SB-134	Brass Wire.					

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SB-134	C 21000	D 5535	C2100W	H 3260	C 2100W	DIN 17660-CuZn5
SB-134	C 22000	D 5535	C2200W	H 3260	C 2200W	DIN 1787-CuZn10,
SB-134						DIN 17660-CuZn10
SB-134	C 23000	D 5535	C2300W	H 3260	C 2300W	DIN 1787-CuZn15,
SB-134						DIN 17660-CuZn15
SB-134	C 24000	D 5535	C2400W	H 3260	C 2600W	DIN 1787-CuZn20,
SB-134						DIN 17660-CuZn20
SB-134	C 26000	D 5535	C2600W	H 3260	C 2600W	DIN 1787-CuZn30,
SB-134						DIN 17660-CuZn30
SB-134	C 27000	D 5554	C2700W	H 3260	C 2700W	DIN 1787-CuZn36,
SB-134						DIN 17660-CuZn36
SB-135	Seamless Brass Tube.					
SB-135	C 22000	D 5301	C2200T	H 3300	C 2200T	DIN 1787-CuZn10
SB-135	C 23000	D 5301	C2300T	H 3300	C 2300T	DIN 1787-CuZn15
SB-135	C 26000	D 5301	C2600T	H 3300	C 2600T	DIN 1787-CuZn30
SB-135	C 27000	D 5301	C2700T	H 3300	C 2700T	DIN 1787-CuZn36
SB-135	C 28000	D 5301	C2800T	H 3300	C 2800T	DIN 1787-CuZn40
SB-139	Phosphor Bronze Rod, Bar, and Shapes.					
SB-139	C 51000	D 5102	PBRI	H 3270	C 5101B	
SB-139	C 52100	D 5102	PBR3	H 3270	C 5212B	
SB-139	C 53400	D 5102	PbPBB1	H 3270	C 5341B	
SB-139	C 54400	D 5102	PbPBB2	H 3270	C 5441B	
SB-151	Copper-Nickel-Zinc Alloy(Nickel Silver)and Copper-Nickel Rod and Bar.					
SB-151	C 75200	D 5102	NSB3	H 3270	C 7541B	DIN 17677-CuNi 12Zn24, DIN 17682-CuNi 12Zn24
SB-151	C 77000	D 5102	NSB1	H 3270	C 7701B	DIN 17677-CuNi 18Zn20
SB-151	C 79400	D 5102	PbN5B	H 3270	C 7941B	DIN 17677-CuNi 18Zn19Pb
SB-152	Copper Sheet, Strip, Plate, and Rolled Bar.					
SB-152	C 10200	D 5201	OFCuS	H 3100	C 1020P	DIN 1787-OF-Cu,
SB-152						DIN 17670-OF-Cu
SB-152		D 5201	OFCuT	H 3100	C 1020R	DIN 1787-OF-Cu,
SB-152						DIN 17670-OF-Cu

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SB-152	C 11000	D 5201	TCuS1	H 3100	C 1100P	
SB-152		D 5201	TCuT1	H 3100	C 1100R	DIN 1787-ECu58, ECu57, DIN 17670-ECu58, ECu57
SB-152		D 5201	CuSPr1	H 3100	C 1100PP	
SB-152	C 12000	D 5201	DCuS1B	H 3100	C 1201P	DIN 1787-SW-Cu,
SB-152						DIN 17670-SW-Cu
SB-152		D 5201	DCuT1A	H 3100	C 1201R	
SB-152	C 12200	D 5101	DCuS1B	H 3100	C 1220P	DIN 1787-SF-Cu,
SB-152						DIN 17670-SF-Cu
SB-152		D 5101	DCuT1B	H 3100	C 1220R	DIN 1787-SF-Cu,
SB-152						DIN 17670-SF-Cu
SB-152		D 5101	DCuS2	H 3100	C 1221P	DIN 1787-SF-Cu,
SB-152						DIN 17670-SF-Cu
SB-152		D 5101	DCuT2	H 3100	C 1221R	DIN 1787-SF-Cu,
SB-152						DIN 17670-SF-Cu
SB-152		D 5101	CuSPr2	H 3100	C 1221PP	DIN 1787-SF-Cu,
SB-152						DIN 17670-SF-Cu
SB-159	Phosphor Bronze Wire.					
SB-159	C 51000	D 5102	PBW1	H 3270	C 5101W	
SB-159	C 52100	D 5102	PBW3	H 3270	C 5212W	DIN 17662-CuSn8,
SB-159						DIN 17677-CuSn8
SB-167	Nickel-Chromium-Iron Alloy Seamless Pipe and Tube.					
SB-167	PIPE	D 3758	NCF600TP	G 4903	NCF600TP	VdTUBWb1.305 NiCr15Fe
SB-167	TUBE	D 3757	NCF600TB	G 4904	NCF600TB	VdTUVWb1.350 NiCr15Fe
SB-168	Nickel-Chromium-Iron Alloy Plate, Sheet and Strip.					
SB-168	PIPE	D 3532	NCF600P	G 4902	NCF600P(INCONEL600)	VdTUVWb1.350 NiCr15Fe
SB-171	Copper-Alloy Condenser Tube Plates.					
SB-171	C 46400	D 5201	NBS 2	H 3100	C 4640P	DIN 17670-CuZn 39Sn
SB-171	C 63000	D 5201	ABS 5	H 3100	C 6301P	DIN 17670-CuAl 10Ni
SB-171	C 70600	D 5201	NCuS 1	H 3100	C 7060P	DIN 17664-CuNi 10Fe
SB-171	C 71500	D 5201	NCuS 3	H 3100	C 7150P	DIN 17664-CuNi 30Fe
SB-187	Copper Bus Bar, Rod and Shapes.					

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SB-187	C 10200	D 5101	OFCuBE	H 3250	C 1020B	DIN 1787-OF-Cu,
SB-187						DIN 17672-OF-Cu
SB-187	C 11000	D 5101	TCuBE1	H 3250	C 1100B	DIN 1787-ECu58, ECu57, DIN 17672-ECu58, ECu57
SB-187	C 12000	D 5101	DCuBE1A	H 3250	C 1201B	DIN 1787-SW-Cu,
SB-187						DIN 17672-SW-Cu
SB-188	Seamless Copper Bus Pipe and Tube.					
SB-188	C 11000	D 5301	C 1100T	H 3300	C 1100T	DIN 1787-ECu58, ECu57, DIN 1754, 1755-ECu85, ECu57
SB-194	Copper-Beryllium Alloy Plate, Sheet, Strip, and Rolled Bar.					
SB-194	C 17000	D 5202	C 1700S	H 3130	C 1700P	DIN 17666-CuBe1,7,
SB-194						DIN 17670-CuBe1,7
SB-194		D 5202	C 1700T	H 3130	C 1700R	DIN 17666-CuBe1,7,
SB-194						DIN 17670-CuBe1,7
SB-194	C 17200	D 5202	C 1720S	H 3130	C 1720P	DIN 17666-CuBe2,
SB-194						DIN 17670-CuBe2
SB-194		D 5202	C 1720T	H 3130	C 1720R	DIN 17666-CuBe2,
SB-194						DIN 17670-CuBe2
SB-196	Copper-Beryllium Alloy Rod and Bar.					
SB-196	C 17200	D 5533	BeCuB2	H 3270	C 1720B	DIN 17666-CuBe2,
SB-196						DIN 17682-CuBe2
SB-197	Copper-Beryllium Alloy Wire.					
SB-197	C 17200	D 5102	BeCuW2	H 3270	C 1720W	DIN 17666-CuBe2, DIN 17682-CuBe2
SB-206	Copper-Nickel-Zinc Alloy(Nickel Silver)Wire and Copper-Nickel Alloy Wire.					
SB-206	C 75200	D 5102	NSW 3	H 3270	C 7541W	
SB-206	C 77000	D 5102	NSW 1	H 3270	C 7701W	DIN 17663-CuNi 18Zn20, DIN 17677-CuNi 18Zn20
B-209	Aluminum Alloy Sheet and Plate.					
B-209	1100	D 6701	A1100P	H 4000	A 1100P	
B-209	2014	D 6701	A2014P	H 4000	A 2014P	DIN 1745-AlCuSiMn
B-209	Alclad2014	D 6701	A2014PC	H 4000	A 2014PC	
B-209	2024	D 6701	A2024P	H 4000	A 2024P	DIN 1745-AlCuMg2
B-209	Alclad2024	D 6701	A2024PC	H 4000	A 2024PC	
B-209	3003	D 6701	A3003P	H 4000	A 3003P	DIN 1745-AlMnCu

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
B-209	3004	D 6701	A3004P	H 4000	A 3004P	DIN 1745–AlMn1Mg1
B-209	3005	D 6701	A3005P	H 4000	A 3005P	DIN 1745–AlMn1Mg0.5
B-209	5005	D 6701	A5005P	H 4000	A 5005P	DIN 1745–AlMg1
B-209	5052	D 6701	A5052P	H 4000	A 5052P	DIN 1745–AlMg0.5
B-209	5652	D 6701	A5652P	H 4000	A 5652P	
B-209	5154	D 6701	A5154P	H 4000	A 5154P	
B-209	5254	D 6701	A5254P	H 4000	A 5254P	
B-209	5083	D 6701	A5083P	H 4000	A 5083P	DIN 1745–AlMg4.5Mn
B-209	5086	D 6701	A5086P	H 4000	A 5086P	DIN 1745–AlMg4Mn
B-209	6061	D 6701	A6061P	H 4000	A 6061P	
B-209	7075	D 6701	A7075P	H 4000	A 7075P	DIN 1745–AlZnMgCu1.5
B-209	Alclad7075	D 6701	A7075PC	H 4000	A 7075PC	
B-210	Aluminum Alloy Drawn Seamless Tubes.					
B-210	1100	D 6761	A1100PD	H 4080	A 1100TD	
B-210	2024	D 6761	A2024PD	H 4080	A 2024TD	DIN 1746–AlCuMg2
B-210	3003	D 6761	A3003PD	H 4080	A 3003TD	DIN 1746–AlMnCu
B-210	5052	D 6761	A5052PD	H 4080	A 5052TD	DIN 1746–AlMg2.5
B-210	5154	D 6761	A5154PD	H 4080	A 5154TD	
B-210	5083	D 6761	A5083PD	H 4080	A 5083TD	DIN 1746–AlMg4.5Mn
B-210	6061	D 6761	A6061PD	H 4080	A 6061TD	
B-210	6063	D 6761	A6063PD	H 4080	A 6063TD	
B-210	7075	D 6761	A7075PD	H 4080	A 7075TD	DIN 1746–AlZnMgCu1.5
B-211	Aluminum–Alloy Bars, Rods, and Wire.					
B-211	1100	D 6763	A1100BD	H 4040	A 1100BD	
B-211		D 6763	A1100W	H 4040	A 1100W	
B-211	2011	D 6763	A2011BD	H 4040	A 2011BD	DIN 1747–AlCuBipb
B-211		D 6763	A2011W	H 4040	A 2011W	
B-211	2014	D 6763	A2014BD	H 4040	A 2014BD	DIN 1747–AlCuSiMn
B-211	2017	D 6763	A2017BD	H 4040	A 2017BD	DIN 1747–AlCuMg1
B-211		D 6763	A2017W	H 4040	A 2017W	DIN 1747–AlCuMg1
B-211	2117	D 6763	A2117W	H 4040	A 2117W	DIN 1747–AlCu2.5Mg0.5

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
B-211	2024	D 6763	A2024BD	H 4040	A 2024BD	DIN 1747–AlCuMg2
B-211		D 6763	A2024W	H 4040	A 2024W	DIN 1747–AlCuMg2
B-211	3003	D 6763	A3003BD	H 4040	A 3003BD	DIN 1747–AlCuMnCu
B-211		D 6763	A3003W	H 4040	A 3003W	DIN 1747–AlCuMnCu
B-211	5052	D 6763	A5052BD	H 4040	A 5052BD	DIN 1747–AlCuMg2.5
B-211		D 6763	A5052W	H 4040	A 5052W	DIN 1747–AlCuMg2.5
B-211	5056	D 6763	A5056BD	H 4040	A 5056BD	DIN 1747–AlCuMg5
B-211		D 6763	A5056W	H 4040	A 5056W	DIN 1747–AlCuMg5
B-211	6061	D 6763	A6061BD	H 4040	A 6061BD	
B-211		D 6763	A6061W	H 4040	A 6061W	
B-211	7075	D 6763	A7075BD	H 4040	A 7075BD	DIN 1747–AlZnMgCu1.5
SB-221	Alumium Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.					
SB-221	1100	D 6763	A1100BE	H 4040	A 1100BE	
SB-221	2014	D 6763	A2014BE	H 4040	A 2014BE	DIN 1747–AlCuSiMn
SB-221	2024	D 6763	A2024BE	H 4040	A 2024BE	DIN 1747–AlCuMg2
SB-221	3003	D 6763	A3003BE	H 4040	A 3003BE	DIN 1747–AlMnCu
SB-221	5083	D 6763	A5083BE	H 4040	A 5083BE	DIN 1747–AlMg4.5Mn
SB-221	6061	D 6763	A6061BE	H 4040	A 6061BE	
SB-221	6063	D 6763	A6063BE	H 4040	A 6063BE	
SB-221	7075	D 6763	A7075BE	H 4040	A 7075BE	DIN 1747–AlZnMgCu1
SB-221	1100	D 6763	A1100PE	H 4040	A 1100TE	
SB-221	2014	D 6763	A2014PE	H 4040	A 2014TE	DIN 1747–AlCuSiMn
SB-221	2024	D 6763	A2024PE	H 4040	A 2024TE	DIN 1747–AlCuMg2
SB-221	Alumium Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.					
SB-221	3003	D 6761	A300EPE	H 4080	A 300ETE	DIN 1747–AlMnCu
SB-221	5052	D 6761	A5052PE	H 4080	A 5052TE	DIN 1747–AlMg2.5
SB-221	5154	D 6761	A5154PE	H 4080	A 5154TE	
SB-221	5454	D 6761	A5454PE	H 4080	A 5454TE	DIN 1747–AlMg2.7Mn
SB-221	5083	D 6761	A5083PE	H 4080	A 5083TE	DIN 1747–AlMg4.5Mn
SB-221	6061	D 6761	A6061PE	H 4080	A 6061TE	
SB-221	6063	D 6761	A6063PE	H 4080	A 6063TE	

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SPEC	GRADE	NUMBER	SYMBOL	NUMBER	SYMBOL	
SB-221	7075	D 6761	A7075PE	H 4080	A 7075TE	DIN 1747–AlZnMgCu1.5
B-247	Aluminum Alloy Die and Hang Forgings.					
B-247	1100	D 6770	A1100FD	H 4140	A 1100FD	
B-247	2014	D 6770	A2014FD	H 4140	A 2014FD	DIN 1749–AlCuSiMn
B-247		D 6770	A2014FH	H 4140	A 2014FH	DIN 1749–AlCuSiMn
B-247	2618	D 6770	A2N01FD	H 4140	A 2N01FD	
B-247		D 6770	A2N01FH	H 4140	A 2N01FH	
B-247	4032	D 6770	A4032FD	H 4140	A 4032FD	
B-247	5083	D 6770	A5083FD	H 4140	A 5083FD	DIN 1749–AlMg4.5Mn
B-247		D 6770	A5083FH	H 4140	A 5083FH	DIN 1749–AlMg4.5Mn
B-247	6061	D 6770	A6061FD	H 4140	A 6061FD	
B-247		D 6770	A6061FH	H 4140	A 6061FH	
B-247	7075	D 6770	A7075FD	H 4140	A 7075FD	DIN 1749–AlZnMgCu1.5
B-247		D 6770	A7075FH	H 4140	A 7075FH	DIN 1749–AlZnMgCu1.5
B-265	Titanium and Titanium Alloy Strip, Sheet and Plate.					
B-265	GR. 1	D 6000	TiP28H,C	H 4600	TP 28	DIN 17860–3. 7025.10
B-265	GR. 2	D 6000	TiP35H,C	H 4600	TP 35	DIN 17860–3. 7035.10
B-265	GR. 3	D 6000	TiP49H,C	H 4600	TP 49	DIN 17860–3. 7055.10
B-313	Aluminum–Alloy Round Welded Tubes					
B-313	1100	D 6713	A1100TW	H 4090	A 1100TW	
B-313	3003	D 6713	A3003TW	H 4090	A 3003TW	
B-313	5052	D 6713	A5052TW	H 4090	A 5052TW	
B-337	Seamless and Welded Titanium and Titanium Alloy Pipe.					
B-337	GR. 1	D 5574	TTP 28	H 4630	TTP 28	
B-337	GR. 2	D 5574	TTP 35	H 4630	TTP 35	
B-337	GR. 3	D 5574	TTP 49	H 4630	TTP 49	
SB-338	Seamless and Welded Titanium and Titanium Alloy Tube for Condensers and Heat Exchangers.					
SB-338	GR. 1	D 5575	TTH 28	H 4631	TTH 28	
SB-338	GR. 2	D 5575	TTH 35	H 4631	TTH 35	
SB-338	GR. 3	D 5575	TTH 49	H 4631	TTH 49	