



AWS Addenda Notice

The following Addenda have been made and will be incorporated into the next edition of this document.

AWS Standard: B2.1/B2.1M:2014-AMD1
Addenda Number: ADD1
Subject: Table B.1, Table C.1, Table C.2, and Table C.4

Page 72 – Additions and corrections to Table B.1, *Grouping of Welding Electrodes and Rods for Qualification (see B1)* as follows:

Table B.1
Grouping of Welding Electrodes and Rods for Qualification (see B1)

F-No.	AWS Specification	AWS Classification
Steel		
6	A5.30	INMs-X, IN5XX, IN3XX(X)
<u>6</u>	<u>A5.36</u>	<u>All Classifications</u>
Aluminum and Aluminum Alloys		
21	A5.3	E1100, E3003
21	A5.10	<u>ER1070, R1070, ER1080A, R1080A, ER1100, R1100, ER1188, R1188, ER1200, R1200, ER1450, R1450, ER3103, R3103</u>
22	A5.10	<u>ER5087, R5087, ER5183, R5183, ER5183A, R5183A, ER5187, R5187, ER5249, R5249, ER5356, R5356, ER5356A, R5356A, ER5554, R5554, ER5556, R5556, ER5556A, R5556A, ER5556B, R5556B, ER5556C, R5556C, ER5654, R5654, ER5654A, R5654A, ER5754, R5754</u>
23	A5.3	E4043
23	A5.10	<u>ER4010, R4010, R4011, ER4018, R4018, ER4043, R4043, ER4043A, R4043A, ER4046, R4046, ER4047, R4047, ER4047A, R4047A, ER4643, R4643, ER4943, R4943, R-A357.0, R357.0, R-A357.0</u>
25	A5.10	<u>ER2319, R2319, R206.0</u>
<u>26</u>	<u>A5.10</u>	<u>ER4009, R4009, ER4145, R4145, R-C355.0</u>
Copper and Copper Alloys		
31	A5.6	ECu

Page 100 – Delete material ASTM A473, 303 and 303Se from Table C.1, *List of Base Metal Specifications*

Page 213 – Delete material ASTM A473, 303 and 303Se from Table C.2, *M-Number Listing of Base Metals*

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Pages 76-153 – Additions and corrections to Table C.1, *List of Base Metal Specifications* as follows:

Table C.1
List of Base Metal Specifications—Ferrous Alloys

Standard	Base Metal Specification	Material Number	Group Number	ISO 15608 Group	Type, Grade, or Alloy Designation	UNS Number	Product Form
Steel and Steel Alloys							
API	5L	1	2	11.1	X65	—	Seamless & Welded Pipe
API	5L	1	2	2.1	X65M	—	Welded Pipe
API	5L	1	2	2.1	X65MO	—	Welded Pipe
API	5L	1	2	2.1	X65MS	—	Welded Pipe
API	5L	1	2	3.1	X65Q	—	Seamless & Welded Pipe
API	5L	1	2	3.1	X65QO	—	Seamless & Welded Pipe
API	5L	1	2	3.1	X65QS	—	Seamless & Welded Pipe
AS	1448	1	1	1.1	K3	—	Forgings
AS	1448	1	2	11.2	K4	—	Forgings
AS	1448	1	2	11.2	K5	—	Forgings
AS	1448	1	3	11.2	K6	—	Forgings
AS	1448	1	1	1.2	K8	—	Forgings
AS	1448	1	2	1.2	K9	—	Forgings
AS	1448	1	3	11.1	K10	—	Forgings
AS	1448	1	1	1.1	S1	—	Forgings
AS	1448	1	1	1.1	S3	—	Forgings
AS	1448	1	2	11.2	S4	—	Forgings
AS	1448	1	2	11.2	S5	—	Forgings
AS	1448	1	3	11.2	S6	—	Forgings
AS	4728	1	1	1.1	200 L0	—	E.R.W. Pipe
AS	4728	1	1	1.1	240 L0	—	E.R.W. Pipe
AS	4728	1	1	1.2	290 L0	—	E.R.W. Pipe
ASTM	A108	1	1	1.1	1015	G10150	Bar
ASTM	A108	1	1	1.1	1018	G10180	Bar
ASTM	A108	1	1	1.1	1020	G10200	Bar
ASTM	A108	3	3	4.1	8620	G86200	Bar
ASTM/ASME	A/SA-182	15E	1	6.4	F91	K90901	Forgings
ASTM/ASME	A/SA-182	8	2	8.2	F310H	S31009	Forgings
ASTM/ASME	A/SA-182	8	2	8.2	F310H	S31009	Forgings
ASTM/ASME	A/SA-203	9A	1	9.1	A	K21703	Plate
ASTM/ASME	A/SA-203	9A	1	9.1	B	K22103	Plate
ASTM/ASME	A/SA-213	8	1	8.1	—	S30432	Seamless Tube
ASTM/ASME	A/SA-213	8	1	8.1	—	S30432	Seamless Tube
ASTM/ASME	A/SA-213	8	4	8.2	—	S31254	Seamless Tube
ASTM/ASME	A/SA-213	8	1	8.1	TP316Ti	S31635	Seamless Tube
ASTM/ASME	A/SA-213	8	1	8.1	TP317	S31700	Seamless Tube
ASTM/ASME	A/SA-213	8	1	8.1	TP317L	S31703	Seamless Tube
ASTM/ASME	A/SA-213	8	1	8.1	—	S38815	Seamless Tube
ASTM/ASME	A/SA-217	15E	1	6.4	C12A	J84090	Castings
ASTM	A234	15E	1	6.4	WP92	K92460	Piping Fittings
ASTM/ASME	A/SA-240	10H	1	10.1	—	S32101	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	10H	1	10.1	—	S32101	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	10H	1	10.1	—	S32304	Plate, Sheet & Strip

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Table C.1 (Continued)
List of Base Metal Specifications—Ferrous Alloys

Standard	Base Metal Specification	Material Number	Group Number	ISO 15608 Group	Type, Grade, or Alloy Designation	UNS Number	Product Form
Steel and Steel Alloys							
ASTM/ASME	A/SA-240	8	4	8.2	—	S32654	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	8	1	8.1	—	S38815	Plate, Sheet & Strip
ASTM/ASME	A/SA-249	8	1	8.1	—	S38815	Welded Tube
ASTM/ASME	A/SA-240	7	1	7.1	405	S40500	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	7	2	7.1	S43940	S43940	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	7	2	7.1	—	S44100	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	10H	1	10.1	—	S82012	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	10H	1	10.1	—	S82012	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	10H	1	10.1	—	S82031	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	10H	1	10.1	—	S82031	Plate, Sheet & Strip
ASTM/ASME	A/SA-240	10H	1	10.1	—	S82441	Seamless & Welded Tube
ASTM/ASME	A/SA-240	10H	1	10.1	—	S82441	Seamless & Welded Tube
ASTM/ASME	A/SA-268	7	1	7.1	TP405	S40500	Seamless & Welded Tube
ASTM/ASME	A/SA-276	8	2	8.2	314	S31400	Hot-finished Bar
ASTM/ASME	A/SA-312	8	1	8.1	TP316Ti	S31635	Seamless & Welded Pipe
ASTM/ASME	A/SA-336	15E	1	6.4	F91	K90901	Forgings
ASTM/ASME	A/SA-336	15E	1	6.4	F92	K92460	Forgings
ASTM/ASME	A/SA-358	8	4	8.2	S31254	S31254	Fusion Welded Pipe
ASTM/ASME	A/SA-358	8	4	8.2	S31254	S31254	Fusion Welded Pipe
ASTM/ASME	A/SA-387	15E	1	6.4	91, Cl.2	K90901	Plate
ASTM/ASME	A/SA-403	8	4	8.1	WP S31726	S31726	Wrought Piping Fitting
ASTM/ASME	A/SA-403	8	1	8.1	WP S38815	S38815	Wrought Piping Fitting
ASTM/ASME	A/SA-451	8	1	8.1	CPF3M	J92800	Centrifugal Cast Pipe
ASTM/ASME	A/SA-479	10H	1	10.1	—	S32205	Bars & Shapes
ASTM/ASME	A/SA-479	10H	1	10.2	S32906	S32906	Bars & Shapes
ASTM/ASME	A/SA-479	8	4	8.3	—	S34565	Bars & Shapes
ASTM/ASME	A/SA-479	8	1	8.1	—	S38815	Bars & Shapes
ASTM/ASME	A/SA-479	7	1	7.1	405	S40500	Bars & Shapes
ASTM/ASME	A/SA-479	10H	1	10.1	—	S82441	Bars
ASTM/ASME	A/SA-479	10H	1	10.1	—	S82441	Bars
ASTM/ASME	A/SA-553	11A	1	9.2	III	—	Plate
ASTM/ASME	A/SA-572	1	2	1.3	55	—	Plate & Shapes
ASTM/ASME	A/SA-572	1	3	1.3	65	—	Plate & Shapes
ASTM	A633	1	1	1.1	A	K01802	Plate
ASTM	A633	1	1	1.1	C	K12000	Plate
ASTM	A633	1	2	1.1	C	K12000	Plate
ASTM	A633	1	1	1.1	D	K12037	Plate
ASTM	A633	1	2	1.1	D	K12037	Plate
ASTM	A633	1	3	4.1	E	K12202	Plate
ASTM/ASME	A/SA-789	10H	1	10.1	—	S32205	Seamless & Welded Tube
ASTM/ASME	A/SA-789	10H	1	10.1	—	S82441	Seamless & Welded Tube
ASTM/ASME	A/SA-789	10H	1	10.1	—	S82441	Seamless & Welded Pipe
ASTM/ASME	A/SA-790	10H	1	10.1	2205	S32205	Seamless & Welded Pipe
ASTM/ASME	A/SA-790	10H	1	10.1	—	S82441	Seamless & Welded Pipe
ASTM/ASME	A/SA-790	10H	1	10.1	—	S82441	Seamless & Welded Pipe
ASTM/ASME	A/SA-841	3	3	2.2	F, Cl. 6	—	Plate

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Table C.1 (Continued)
List of Base Metal Specifications—Ferrous Alloys

Standard	Base Metal Specification	Material Number	Group Number	ISO 15608 Group	Type, Grade, or Alloy Designation	UNS Number	Product Form
Steel and Steel Alloys							
ASTM/ASME	A/SA-841	3	3	2.2	F, Cl. 7	—	Plate
ASTM	A859	11C	1	3.3	A Cl.1	K20747	Forgings
ASTM	A859	11C	1	3.3	A Cl.2	K20747	Forgings
ASTM	A860	1	1	1.2	WPHY 42	—	Seamless & Welded Fitting
ASTM	A860	1	1	1.2	WPHY 46	—	Seamless & Welded Fitting
ASTM	A860	1	1	1.2	WPHY 52	—	Seamless & Welded Fitting
ASTM	A860	1	2	1.3	WPHY 60	—	Seamless & Welded Fitting
ASTM	A860	1	2	1.3	WPHY 65	—	Seamless & Welded Fitting
ASTM	A860	1	3	1.3	WPHY 70	—	Seamless & Welded Fitting
ASTM	A928	10H	1	10.1	S31803	S31803	Welded Pipe
ASTM	A928	10H	1	10.1	S32003	S32003	Welded Pipe
ASTM	A928	10H	1	10.1	S32003	S32003	Welded Pipe
ASTM	A928	10H	1	10.1	2205	S32205	Welded pipe
ASTM	A928	10H	1	10.1	2304	S32304	Welded Pipe
ASTM	A928	10H	1	10.2	2507	S32750	Welded Pipe
ASTM	A992	1	1	1.2	—	—	Shapes
ASTM/ASME	A/SA-1011	1	1	1.2	HSLAS 45 Cl. 1	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.2	HSLAS 45 Cl. 2	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.2	HSLAS 50 Cl. 1	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.2	HSLAS 50 Cl. 2	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	2	1.3	HSLAS 55 Cl. 1	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.3	HSLAS 55 Cl. 2	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	2	1.3	HSLAS 60 Cl. 1	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	2	1.3	HSLAS 60 Cl. 2	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.1	SS 33	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.1	SS 36, 1	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.1	SS 36, 2	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.2	SS 40	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.2	SS 45	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.2	SS 45, 1	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	1	1.2	SS 50	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	2	1.3	SS 55	—	Sheet & Strip
ASTM/ASME	A/SA-1011	1	2	1.3	SS 60	—	Sheet & Strip
ASTM/ASME	A/SA-1017	15E	1	6.4	92	K92460	Plate
ASTM	A1066	3	1	1.2	50	—	Plate
ASTM	A1066	3	2	2.1	60	—	Plate
ASTM	A1066	3	3	2.1	65	—	Plate
ASTM	A1066	3	3	2.2	70	—	Plate
ASTM	A1066	3	3	2.2	80	—	Plate
ASTM	A1085	1	1	11.1	—	—	Structural Sections
ASTM	A1091	15E	1	6.4	C91	J84090	Castings
CSA	Z245.1	1	1	11.1	241	—	Seamless & Welded Pipe
CSA	Z245.1	1	1	11.1	290	—	Seamless & Welded Pipe
CSA	Z245.1	1	1	11.1	359	—	Seamless & Welded Pipe
CSA	Z245.1	1	2	11.1	386	—	Seamless & Welded Pipe
CSA	Z245.1	1	2	11.1	414	—	Seamless & Welded Pipe

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Table C.1 (Continued)
List of Base Metal Specifications—Ferrous Alloys

Standard	Base Metal Specification	Material Number	Group Number	ISO 15608 Group	Type, Grade, or Alloy Designation	UNS Number	Product Form
Steel and Steel Alloys							
CSA	Z245.1	1	2	11.1	448	—	Seamless & Welded Pipe
CSA	Z245.1	1	3	11.1	483	—	Seamless & Welded Pipe
CSA	Z245.1	1	4	11.1	550	—	Seamless & Welded Pipe
CSA	Z245.1	1	4	11.1	620	—	Seamless & Welded Pipe

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Table C.1
List of Base Metal Specifications—Nonferrous Alloys

Standard	Base Metal Specification	Type, Grade, or Alloy Designation	Material Number	UNS Number	ISO 15608 Group	Product Form
ASTM/ASME	A/SA-182	—	45	N08367	8.2	Forgings
ASTM/ASME	A/SA-182	F904L	45	N08904	8.2	Forgings
ASTM/ASME	A/SA-182	F58	45	S31266	8.2	Forgings
ASTM/ASME	A/SA-249	—	45	N08367	8.2	Welded Tube
ASTM/ASME	A/SA-249	—	45	N08367	8.2	Welded Tube
ASTM/ASME	A/SA-312	N08367	45	N08367	8.2	Seamless & Welded Pipe
ASTM/ASME	A/SA-312	N08367	45	N08367	8.2	Seamless & Welded Pipe
ASTM/ASME	A/SA-312	—	45	N08904	8.2	Seamless & Welded Pipe
ASTM/ASME	A/SA-358	N08367	45	N08367	8.2	Fusion Welded Pipe
ASTM/ASME	A/SA-358	N08367	45	N08367	8.2	Fusion Welded Pipe
ASTM/ASME	A/SA-358	—	45	S31266	8.2	Fusion Welded Pipe
ASTM	A403	—	45	N08367	8.2	Wrought Piping Fitting
ASTM/ASME	A/SA-403	—	45	N08904	8.2	Wrought Piping Fitting
ASTM/ASME	A/SA-479	—	45	N08367	8.2	Bars & Shapes
ASTM/ASME	A/SA-813	N08367	45	N08367	8.2	Welded Pipe
ASTM/ASME	A/SA-813	N08367	45	N08367	8.2	Welded Pipe
ASTM/ASME	A/SA-814	N08367	45	N08367	8.2	Cold Worked Welded
ASTM/ASME	A/SA-814	N08367	45	N08367	8.2	Cold Worked Welded
ASTM/ASME	B/SB-111	—	34	C70620	34	Seamless Tube
ASTM/ASME	B/SB-111	—	34	C71520	34	Seamless Tube
ASTM/ASME	B/SB-148	—	35	C95800	35	Castings
ASTM/ASME	B/SB-148	—	35	C95820	35	Castings
ASTM/ASME	B/SB-151	—	34	C70620	34	Rod & Bar
ASTM/ASME	B/SB-171	—	34	C70620	34	Plate & Sheet
ASTM/ASME	B/SB-171	—	34	C71520	34	Plate & Sheet
ASTM/ASME	B/SB-171	—	34	C71520	34	Plate & Sheet
ASTM/ASME	B/SB-265	1	51	R50250	51.1	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	2	51	R50400	51.2	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	2H	51	R50400	51.2	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	3	52	R50550	51.3	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	11	51	R52250	52	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	17	51	R52252	51.1	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	27	51	R52254	51.1	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	7	51	R52400	52	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	7H	51	R52400	52	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	16	51	R52402	51.2	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	16H	51	R52402	51.2	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	26	51	R52404	51.2	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	26H	51	R52404	51.2	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	38	54	R54250	53	Plate, Sheet & Strip
ASTM/ASME	B/SB-265	35	54	R56340	53	Plate, Sheet & Strip
ASTM/ASME	B/SB-283	—	34	C70620	34	Forgings
ASTM/ASME	B/SB-283	—	34	C70620	34	Forgings
ASTM/ASME	B/SB-283	—	34	C71520	34	Forgings
ASTM/ASME	B/SB-283	—	34	C71520	34	Forgings
ASTM/ASME	B/SB-338	1	51	R50250	51.1	Seamless & Welded Tube
ASTM/ASME	B/SB-338	2	51	R50400	51.2	Seamless & Welded Tube
ASTM/ASME	B/SB-338	2H	51	R50400	51.2	Seamless & Welded Tube
ASTM/ASME	B/SB-338	3	52	R50550	51.3	Seamless & Welded Tube
ASTM/ASME	B/SB-338	7	51	R52400	52	Seamless & Welded Tube
ASTM/ASME	B/SB-338	7H	51	R52400	52	Seamless & Welded Tube

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Table C.1 (Continued)
List of Base Metal Specifications—Nonferrous Alloys

Standard	Base Metal Specification	Type, Grade, or Alloy Designation	Material Number	UNS Number	ISO 15608 Group	Product Form
ASTM/ASME	B/SB-338	16	51	R52402	51.2	Seamless & Welded Tube
ASTM/ASME	B/SB-338	16H	51	R52402	51.2	Seamless & Welded Tube
ASTM/ASME	B/SB-338	26	51	R52404	51.2	Seamless & Welded Tube
ASTM/ASME	B/SB-338	26H	51	R52404	51.2	Seamless & Welded Tube
ASTM/ASME	B/SB-338	38	54	R54250	53	Seamless & Welded Tube
ASTM/ASME	B/SB-338	35	54	R56340	53	Seamless & Welded Tube
ASTM/ASME	B/SB-348	1	51	R50250	51.1	Bars & Billets
ASTM/ASME	B/SB-348	2	51	R50400	51.2	Bars & Billets
ASTM/ASME	B/SB-348	2H	51	R50400	51.2	Bars & Billets
ASTM/ASME	B/SB-348	3	52	R50550	51.3	Bars & Billets
ASTM/ASME	B/SB-348	7	51	R52400	52	Bars & Billets
ASTM/ASME	B/SB-348	7H	51	R52400	52	Bars & Billets
ASTM/ASME	B/SB-348	16	51	R52402	51.2	Bars & Billets
ASTM/ASME	B/SB-348	16H	51	R52402	51.2	Bars & Billets
ASTM/ASME	B/SB-348	26	51	R52404	51.2	Bars & Billets
ASTM/ASME	B/SB-348	26H	51	R52404	51.2	Bars & Billets
ASTM/ASME	B/SB-348	38	54	R54250	53	Bars & Billets
ASTM/ASME	B/SB-348	35	54	R56340	53	Bars & Billets
ASTM/ASME	B/SB-359	—	34	C70620	34	Seamless Tube
ASTM/ASME	B/SB-359	—	34	C71520	34	Seamless Tube
ASTM/ASME	B/SB-363	WPT 1	51	R50250	51.1	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT 2	51	R50400	51.2	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT 3	52	R50550	51.3	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT 7	51	R52400	52	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT 7H	51	R52400	52	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT 16	51	R52402	51.2	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT 16H	51	R52402	51.2	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT 26	51	R52404	51.2	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT 26H	51	R52404	51.2	Seamless & Welded Fitting
ASTM/ASME	B/SB-363	WPT38	54	R54250	53	Seamless & Welded Fitting
ASTM/ASME	B/SB-366	—	43	N06002	43	Fittings
ASTM/ASME	B/SB-366	—	43	N06625	43	Fittings
ASTM/ASME	B/SB-366	—	45	N08367	8.2	Fittings
ASTM/ASME	B/SB-366	—	45	N08367	8.2	Fittings
ASTM/ASME	B/SB-366	—	43	N10362	43	Fittings
ASTM/ASME	B/SB-367	C-2	51	R52550	51.4	Castings
ASTM/ASME	B/SB-367	C-3	52	R52550	51.4	Castings
ASTM/ASME	B/SB-381	F-1	51	R50250	51.1	Forgings
ASTM/ASME	B/SB-381	F-2	51	R50400	51.2	Forgings
ASTM/ASME	B/SB-381	F-2H	51	R50400	51.2	Forgings
ASTM/ASME	B/SB-381	F-3	52	R50550	51.3	Forgings
ASTM/ASME	B/SB-381	F-7	51	R52400	52	Forgings
ASTM/ASME	B/SB-381	F-7H	51	R52400	52	Forgings
ASTM/ASME	B/SB-381	F-16	51	R52402	51.2	Forgings
ASTM/ASME	B/SB-381	F-16H	51	R52402	51.2	Forgings
ASTM/ASME	B/SB-381	F-26	51	R52404	51.2	Forgings
ASTM/ASME	B/SB-381	F-26H	51	R52404	51.2	Forgings
ASTM/ASME	B/SB-381	F-38	54	R54250	53	Forgings
ASTM/ASME	B/SB-443	1	43	N06625	43	Plate, Hot-Rolled Sheet
ASTM/ASME	B/SB-443	1	43	N06625	43	Cold-Rolled Sheet Strip
ASTM/ASME	B/SB-446	1	43	N06625	43	Rod & Bar

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Table C.1 (Continued)
List of Base Metal Specifications—Nonferrous Alloys

Standard	Base Metal Specification	Type, Grade, or Alloy Designation	Material Number	UNS Number	ISO 15608 Group	Product Form
ASTM/ASME	B/SB-446	1	43	N06625	43	Rod & Bar
ASTM/ASME	B/SB-462	—	45	N08367	8.2	Forgings
ASTM/ASME	B/SB-462	—	43	N10362	43	Forgings
ASTM/ASME	B/SB-466	—	34	C70620	34	Seamless Pipe & Tube
ASTM/ASME	B/SB-466	—	34	C71520	34	Seamless Pipe & Tube
ASTM/ASME	B/SB-467	—	34	C70620	34	Welded Pipe
ASTM/ASME	B/SB-467	—	34	C70620	34	Plate & Sheet
ASTM/ASME	B/SB-467	—	34	C71520	34	Plate & Sheet
ASTM/ASME	B/SB-467	—	34	C71520	34	Plate & Sheet
ASTM/ASME	B/SB-543	—	34	C70620	34	Welded Tube
ASTM/ASME	B/SB-543	—	34	C71520	34	Welded Tube
ASTM/ASME	B/SB-564	—	45	N08367	8.2	Forgings
ASTM/ASME	B/SB-564	—	43	N10362	43	Forgings
ASTM/ASME	B/SB-574	—	43	N06022	43	Rod
ASTM/ASME	B/SB-574	—	43	N10362	43	Rod
ASTM/ASME	B/SB-575	—	43	N06022	43	Plate, Sheet & Strip
ASTM/ASME	B/SB-575	—	43	N10362	43	Plate, Sheet & Strip
ASTM/ASME	B/SB-619	—	43	N10362	43	Welded Pipe
ASTM/ASME	B/SB-622	—	43	N10362	43	Seamless Pipe & Tube
ASTM/ASME	B/SB-626	—	43	N10362	43	Welded Tube
ASTM/ASME	B/SB-675	—	45	N08367	8.2	Welded Pipe
ASTM/ASME	B/SB-675	—	45	N08367	8.2	Welded Pipe
ASTM/ASME	B/SB-676	—	45	N08367	8.2	Welded Tube
ASTM/ASME	B/SB-676	—	45	N08367	8.2	Welded Tube
ASTM/ASME	B/SB-688	—	45	N08367	8.2	Plate, Sheet & Strip
ASTM/ASME	B/SB-688	—	45	N08367	8.2	Plate, Sheet & Strip
ASTM/ASME	B/SB-690	—	45	N08367	8.2	Seamless Pipe & Tube
ASTM/ASME	B/SB-690	—	45	N08367	8.2	Seamless Pipe & Tube
ASTM/ASME	B/SB-691	—	45	N08367	8.2	Rod, Bar & Wire
ASTM/ASME	B/SB-704	1	43	N06625	43	Welded Tube
ASTM/ASME	B/SB-704	2	43	N06625	43	Welded Tube
ASTM/ASME	B/SB-705	1	43	N06625	43	Welded Pipe
ASTM/ASME	B/SB-705	2	43	N06625	43	Welded Pipe
ASTM	B725	—	41	N02201	41	Welded Pipe
ASTM	B725	—	42	N04400	42	Welded Pipe
ASTM	B730	—	41	N02200	41	Welded Tube
ASTM	B730	—	41	N02201	41	Welded Tube
ASTM	B730	—	42	N04400	42	Welded Tube
ASTM/ASME	B/SB-804	—	45	N08367	8.2	Welded Pipe
ASTM/ASME	B/SB-804	—	45	N08367	8.2	Welded Pipe
ASTM/ASME	B/SB-861	1	51	R50250	51.1	Seamless Pipe
ASTM/ASME	B/SB-861	2	51	R50400	51.2	Seamless Pipe
ASTM/ASME	B/SB-861	2H	51	R50400	51.2	Seamless Pipe
ASTM/ASME	B/SB-861	3	52	R50550	51.3	Seamless Pipe
ASTM/ASME	B/SB-861	7	51	R52400	52	Seamless Pipe
ASTM/ASME	B/SB-861	7H	51	R52400	52	Seamless Pipe
ASTM/ASME	B/SB-861	16	51	R52402	51.2	Seamless Pipe
ASTM/ASME	B/SB-861	16H	51	R52402	51.2	Seamless Pipe
ASTM/ASME	B/SB-861	26	51	R52404	51.2	Seamless Pipe
ASTM/ASME	B/SB-861	26H	51	R52404	51.2	Seamless Pipe
ASTM/ASME	B/SB-861	38	54	R54250	53	Seamless Pipe

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Table C.1 (Continued)
List of Base Metal Specifications—Nonferrous Alloys

Standard	Base Metal Specification	Type, Grade, or Alloy Designation	Material Number	UNS Number	ISO 15608 Group	Product Form
ASTM/ASME	B/SB-861	35	54	R56340	53	Seamless Pipe
ASTM/ASME	B/SB-862	1	51	R50250	51.1	Welded Pipe
ASTM/ASME	B/SB-862	2	51	R50400	51.2	Welded Pipe
ASTM/ASME	B/SB-862	2H	51	R50400	51.2	Welded Pipe
ASTM/ASME	B/SB-862	3	52	R50550	51.3	Welded Pipe
ASTM/ASME	B/SB-862	7	51	R52400	52	Welded Pipe
ASTM/ASME	B/SB-862	7H	51	R52400	52	Welded Pipe
ASTM/ASME	B/SB-862	16	51	R52402	51.2	Welded Pipe
ASTM/ASME	B/SB-862	16H	51	R52402	51.2	Welded Pipe
ASTM/ASME	B/SB-862	26	51	R52404	51.2	Welded Pipe
ASTM/ASME	B/SB-862	26H	51	R52404	51.2	Welded Pipe
ASTM/ASME	B/SB-862	38	54	R54250	53	Welded Pipe
ASTM/ASME	B/SB-862	35	54	R56340	53	Welded Pipe
ASTM/ASME	B/SB-956	—	34	C70620	34	Finned Welded Tube
ASTM/ASME	B/SB-956	—	34	C71520	34	Finned Welded Tube

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Pages 154-275 – Additions and corrections to Table C.2, *M-Number Listing of Base Metals* as follows:

Table C.2
M-Number Listing of Base Metals—Ferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	Group Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Designation	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
Steel and Steel Alloys										
1	1	1.1	AS	1448	K3	—		59.5/33 [410/230]	Forgings	C-Si
1	1	1.2	AS	1448	K8	—		69.5/43.5 [480/300]	Forgings	C-Mn-Si
1	1	1.1	AS	1448	S1	—		58/32 [400/220]	Forgings	C-Si
1	1	1.1	AS	1448	S3	—		59.5/33 [410/230]	Forgings	C-Si
1	1	1.1	AS	4728	200 L0	—		46.5/29 [320/200]	E.R.W. Pipe	C-Mn
1	1	1.1	AS	4728	240 L0	—		55/35 [380/240]	E.R.W. Pipe	C-Mn
1	1	1.2	AS	4728	290 L0	—		60/42 [415/290]	E.R.W. Pipe	C-Mn
1	1	1.1	ASTM	A108	1015	G10150		-/- [-/-]	Bar	C
1	1	1.1	ASTM	A108	1018	G10180		-/- [-/-]	Bar	C
1	1	1.1	ASTM	A108	1020	G10200		-/- [-/-]	Bar	C
1	1	1.1	ASTM	A633	A	K01802		63/42 [435/290]	Plate	Mn-Cb
1	1	1.1	ASTM	A633	C	K12000	>2.5 and ≤4 [>64 and ≤102]	65/46 [450/315]	Plate	Mn-Cb
1	1	1.1	ASTM	A633	D	K12037	>2.5 and ≤4 [>64 and ≤102]	65/46 [450/315]	Plate	C-Mn-Si
1	1	1.2	ASTM	A860	WPHY 42	—		60/42 [415/290]	Seamless & Welded Fittings	C-Mn
1	1	1.2	ASTM	A860	WPHY 46	—		63/46 [435/315]	Seamless & Welded Fittings	C-Mn
1	1	1.2	ASTM	A860	WPHY 52	—		66/52 [455/360]	Seamless & Welded Fittings	C-Mn
1	1	1.2	ASTM	A992	—	—		65/50 [450/345]	Shapes	C-Mn-Si
1	1	1.2	ASTM/ASME	A/SA-1011	HSLAS 45 Cl. 1	—		60/45 [415/310]	Sheet & Strip	C
1	1	1.2	ASTM/ASME	A/SA-1011	HSLAS 45 Cl. 2	—		55/45 [380/310]	Sheet & Strip	C
1	1	1.2	ASTM/ASME	A/SA-1011	HSLAS 50 Cl. 1	—		65/50 [450/345]	Sheet & Strip	C
1	1	1.2	ASTM/ASME	A/SA-1011	HSLAS 50 Cl. 2	—		60/50 [415/345]	Sheet & Strip	C
1	1	1.3	ASTM/ASME	A/SA-1011	HSLAS 55 Cl. 2	—		65/55 [450/380]	Sheet & Strip	C
1	1	1.1	ASTM/ASME	A/SA-1011	SS 33	—		52/33 [360/230]	Sheet & Strip	C
1	1	1.1	ASTM/ASME	A/SA-1011	SS 36, 1	—		53/36 [365/250]	Sheet & Strip	C
1	1	1.1	ASTM/ASME	A/SA-1011	SS 36, 2	—		58/36 [400/250]	Sheet & Strip	C

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Table C.2 (Continued)
M-Number Listing of Base Metals—Ferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	Group Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Designation	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
Steel and Steel Alloys										
1	1	1.2	ASTM/ASME	A/SA-1011	SS 45	—		60/45 [415/310]	Sheet & Strip	C
1	1	1.2	ASTM/ASME	A/SA-1011	SS 45, 1	—		60/45 [415/310]	Sheet & Strip	C
1	1	1.2	ASTM/ASME	A/SA-1011	SS 50	—		65/50 [450/345]	Sheet & Strip	C
1	1	11.1	ASTM	A1085	—	—		65/50 [450/345]	Structural Sections	C-Mn-Si
1	1	11.1	CSA	Z245.1	241	—		60/35 [415/240]	Seamless & Welded Pipe	C-Mn
1	1	11.1	CSA	Z245.1	290	—		60/42 [415/290]	Seamless & Welded Pipe	C-Mn
1	1	11.1	CSA	Z245.1	359	—		66/52 [455/360]	Seamless & Welded Pipe	C-Mn
1	2	11.1	API	5L	X65	—		78/65 [540/450]	Seamless & Welded Pipe	C-Mn
1	2	2.1	API	5L	X65M	—		78/65 [540/450]	Welded Pipe	C-Mn
1	2	2.1	API	5L	X65MO	—		78/65 [540/450]	Welded Pipe	C-Mn
1	2	2.1	API	5L	X65MS	—		78/65 [540/450]	Welded Pipe	C-Mn
1	2	3.1	API	5L	X65Q	—		78/65 [540/450]	Seamless & Welded Pipe	C-Mn
1	2	3.1	API	5L	X65QO	—		78/65 [540/450]	Seamless & Welded Pipe	C-Mn
1	2	3.1	API	5L	X65QS	—		78/65 [540/450]	Seamless & Welded Pipe	C-Mn
1	2	11.2	AS	1448	K4	—		72.5/36 [500/250]	Forgings	C-Si
1	2	11.2	AS	1448	K5	—		78/39 [540/270]	Forgings	C-Mn-Si
1	2	1.2	AS	1448	K9	—		78/43.5 [540/300]	Forgings	C-Mn-Si
1	2	11.2	AS	1448	S4	—		72.5/36 [500/250]	Forgings	C-Si
1	2	11.2	AS	1448	S5	—		78/39 [540/270]	Forgings	C-Mn
1	2	1.3	ASTM/ASME	A/SA-572	55	—		70/55 [485/380]	Plate & Shapes	C-Mn-Si
1	2	1.1	ASTM	A633	C	K12000	<=2.5 [≤64]	70/50 [485/345]	Plate	Mn-Cb
1	2	1.1	ASTM	A633	D	K12037	<=2.5 [≤64]	70/50 [485/345]	Plate	C-Mn-Si
1	2	1.3	ASTM	A860	WPHY 60	—		75/60 [515/415]	Seamless & Welded Fittings	C-Mn
1	2	1.3	ASTM	A860	WPHY 65	—		77/65 [530/450]	Seamless & Welded Fittings	C-Mn
1	2	1.3	ASTM/ASME	A/SA-1011	HSLAS 55 Cl. 1	—		70/55 [485/380]	Sheet & Strip	C
1	2	1.3	ASTM/ASME	A/SA-1011	HSLAS 60 Cl. 1	—		75/60 [515/415]	Sheet & Strip	C
1	2	1.3	ASTM/ASME	A/SA-1011	HSLAS 60 Cl. 2	—		70/60 [485/415]	Sheet & Strip	C
1	2	1.3	ASTM/ASME	A/SA-1011	SS 55	—		70/55 [485/380]	Sheet & Strip	C

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Table C.2 (Continued)
M-Number Listing of Base Metals—Ferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	Group Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Designation	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
Steel and Steel Alloys										
1	2	1.3	ASTM/ASME	A/SA-1011	SS 60	—		75/60 [515/415]	Sheet & Strip	C
1	2	11.1	CSA	Z245.1	386	—		71/56 [490/385]	Seamless & Welded Pipe	C-Mn
1	2	11.1	CSA	Z245.1	414	—		75/60 [515/415]	Seamless & Welded Pipe	C-Mn
1	2	11.1	CSA	Z245.1	448	—		77/65 [530/450]	Seamless & Welded Pipe	C-Mn
1	3	11.2	AS	1448	K6	—		87/43.5 [600/300]	Forgings	C-Mn-Si
1	3	11.1	AS	1448	K10	—		84/43.5 [580/300]	Forgings	C-Mn-Si
1	3	11.2	AS	1448	S6	—		87/43.5 [600/300]	Forgings	C-Mn
1	3	1.3	ASTM/ASME	A/SA-572	65	—		80/65 [550/450]	Plate & Shapes	C-Mn-Si
1	3	4.1	ASTM	A633	E	K12202		80/55 [550/380]	Plate	C-Mn-Si-V
1	3	1.3	ASTM	A860	WPHY 70	—		80/70 [550/485]	Seamless & Welded Fittings	C-Mn
1	3	11.1	CSA	Z245.1	483	—		82/70 [565/485]	Seamless & Welded Pipe	C-Mn
1	4	11.1	CSA	Z245.1	550	—		90/80 [620/550]	Seamless & Welded Pipe	C-Mn
1	4	11.1	CSA	Z245.1	620	—		100/90 [690/620]	Seamless & Welded Pipe	C-Mn
3	1	1.2	ASTM	A1066	50	—		65/50 [450/345]	Plate	Mn-Ni-Cr-Mo
3	2	2.1	ASTM	A1066	60	—		75/60 [515/415]	Plate	Mn-Ni-Cr-Mo
3	3	4.1	ASTM	A108	8620	G86200		-/- [-/-]	Bar	0.5Ni-0.5Cr-Mo
3	3	2.2	ASTM/ASME	A/SA-841	F, Cl. 6	—		82/70 [565/485]	Plate	Mn-0.85Ni-0.30Cr-0.50Mo
3	3	2.2	ASTM/ASME	A/SA-841	F, Cl. 7	—		86/75 [595/515]	Plate	Mn-0.85Ni-0.30Cr-0.50Mo
3	3	2.1	ASTM	A1066	65	—		80/65 [550/450]	Plate	Mn-Ni-Cr-Mo
3	3	2.2	ASTM	A1066	70	—		85/70 [585/485]	Plate	Mn-Ni-Cr-Mo
3	3	2.2	ASTM	A1066	80	—		90/80 [620/550]	Plate	Mn-Ni-Cr-Mo
7	1	7.1	ASTM/ASME	A/SA-240	405	S40500		60/25 [415/170]	Plate, Sheet & Strip	12Cr-Al
7	1	7.1	ASTM/ASME	A/SA-268	TP405	S40500		60/30 [415/205]	Seamless & Welded Tube	12Cr-Al
7	1	7.1	ASTM/ASME	A/SA-479	405	S40500		60/25 [415/170]	Bars & Shapes	12Cr-Al
7	2	7.1	ASTM/ASME	A/SA-240	S43940	S43940		62/36 [425/250]	Plate, Sheet & Strip	18Cr-Ti-Cb
7	2	7.1	ASTM/ASME	A/SA-240	—	S44100		60/35 [415/241]	Plate, Sheet & Strip	18Cr-Cb-Ti
8	1	8.1	ASTM/ASME	A/SA-213	—	S30432		86/34 [595/235]	Seamless Tube	18Cr-9Ni-3Cu-Cb-N

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Table C.2 (Continued)
M-Number Listing of Base Metals—Ferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	Group Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Designation	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
Steel and Steel Alloys										
8	1	8.1	ASTM/ASME	A/SA-213	TP316Ti	S31635		75/30 [515/205]	Seamless Tube	16Cr-12Ni-2Mo-Ti
8	1	8.1	ASTM/ASME	A/SA-213	TP317	S31700		75/30 [515/205]	Seamless Tube	18Cr-13Ni-3Mo
8	1	8.1	ASTM/ASME	A/SA-213	TP317L	S31703		75/30 [515/205]	Seamless Tube	18Cr-13Ni-3Mo
8	1	8.1	ASTM/ASME	A/SA-213	—	S38815		78/37 [540/255]	Seamless Tube	14Cr-16Ni--6Si-Cu-Mo
8	1	8.1	ASTM/ASME	A/SA-240	—	S38815		78/37 [540/255]	Plate, Sheet & Strip	14Cr-16Ni--6Si-Cu-Mo
8	1	8.1	ASTM/ASME	A/SA-249	—	S38815		78/37 [540/255]	Welded Tube	14Cr-16Ni--6Si-Cu-Mo
8	1	8.1	ASTM/ASME	A/SA-312	TP316Ti	S31635		75/30 [515/205]	Seamless & Welded Pipe	16Cr-12Ni-2Mo-Ti
8	1	8.1	ASTM/ASME	A/SA-403	WP S38815	S38815		78/37 [540/255]	Wrought Piping Fittings	14Cr-16Ni--6Si-Cu-Mo
8	1	8.1	ASTM/ASME	A/SA-451	CPF3M	J92800		70/30 [485/205]	Centrifugal Cast Pipe	18Cr-12Ni-2Mo
8	1	8.1	ASTM/ASME	A/SA-479	—	S38815		78/37 [540/255]	Bars & Shapes	14Cr-16Ni--6Si-Cu-Mo
8	2	8.2	ASTM/ASME	A/SA-182	F310H	S31009	>5 [>127]	70/30 [485/205]	Forgings	25Cr-20Ni
8	2	8.2	ASTM/ASME	A/SA-182	F310H	S31009		75/30 [515/205]	Forgings	25Cr-20Ni
8	2	8.2	ASTM/ASME	A/SA-276	314	S31400		75/30 [515/205]	Hot-finished Bar	24Cr-20Ni-Si
8	4	8.2	ASTM/ASME	A/SA-213	—	S31254	>0.1875 [>5]	95/45 [655/310]	Seamless Tube	20Cr-18Ni-6Mo
8	4	8.2	ASTM/ASME	A/SA-213	—	S31254	<=0.1875 [<=5]	98/45 [675/310]	Seamless Tube	20Cr-18Ni-6Mo
8	4	8.2	ASTM/ASME	A/SA-240	—	S32654		109/62 [750/430]	Plate, Sheet & Strip	24Cr-22Ni-7Mo-3M
8	4	8.2	ASTM/ASME	A/SA-358	S31254	S31254	>=0.1875 [>=5]	95/45 [655/310]	Fusion Welded Pipe	20Cr-18Ni-6Mo
8	4	8.2	ASTM/ASME	A/SA-358	S31254	S31254	<0.1875 [<5]	100/45 [690/310]	Fusion Welded Pipe	20Cr-18Ni-6Mo
8	4	8.1	ASTM/ASME	A/SA-403	WP S31726	S31726		80/35 [550/240]	Wrought Piping Fittings	19Cr-15.5Ni-4Mo
8	4	8.3	ASTM/ASME	A/SA-479	—	S34565		115/60 [795/415]	Bars & Shapes	24Cr-17Ni-6Mn-4.5
9A	1	9.1	ASTM/ASME	A/SA-203	A	K21703		65/37 [450/255]	Plate	2.25Ni
9A	1	9.1	ASTM/ASME	A/SA-203	B	K22103		70/40 [485/275]	Plate	2.25Ni
10H	1	10.1	ASTM/ASME	A/SA-240	—	S32101	>0.187 [>5]	95/65 [655/450]	Plate, Sheet & Strip	21Cr-5Mn-1.5Ni-Cu
10H	1	10.1	ASTM/ASME	A/SA-240	—	S32101	<=0.187 [<=5]	101/77 [700/530]	Plate, Sheet & Strip	21Cr-5Mn-1.5Ni-Cu
10H	1	10.1	ASTM/ASME	A/SA-240	—	S32304		87/58 [600/400]	Plate, Sheet & Strip	23Cr-4Ni-Mo-Cu-N
10H	1	10.1	ASTM/ASME	A/SA-240	—	S82012	>0.187 [>5]	94/58 [650/400]	Plate, Sheet & Strip	20Cr-1Ni-Mo-N
10H	1	10.1	ASTM/ASME	A/SA-240	—	S82012	<=0.187 [<=5]	102/73 [705/500]	Plate, Sheet & Strip	20Cr-1Ni-Mo-N
10H	1	10.1	ASTM/ASME	A/SA-240	—	S82031	>0.187 [>5]	94/58 [650/400]	Plate, Sheet & Strip	21Cr-3Ni-1Mo-N
10H	1	10.1	ASTM/ASME	A/SA-240	—	S82031	<=0.187 [<=5]	102/73 [705/500]	Plate, Sheet & Strip	21Cr-3Ni-1Mo-N

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Table C.2 (Continued)
M-Number Listing of Base Metals—Ferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	Group Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Designation	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
Steel and Steel Alloys										
10H	1	10.1	ASTM/ASME	A/SA-240	—	S82441	>=0.40 [>=10]	99/70 [680/480]	Seamless & Welded Tube	24Cr-4Ni-3Mn-1.5
10H	1	10.1	ASTM/ASME	A/SA-240	—	S82441	<0.40 [<10]	107/78 [740/540]	Seamless & Welded Tube	24Cr-4Ni-3Mn-1.5
10H	1	10.1	ASTM/ASME	A/SA-479	—	S32205		95/65 [655/450]	Bars & Shapes	22Cr-5Ni-3Mo-N
10H	1	10.1	ASTM/ASME	A/SA-479	S32906	S32906		109/80 [750/550]	Bars & Shapes	29Cr-6.5Ni-2Mo-N
10H	1	10.1	ASTM/ASME	A/SA-479	—	S82441	>= 0.4375 [>=11]	99/70 [680/480]	Bars	24Cr-4Ni-3Mn-1.5
10H	1	10.1	ASTM/ASME	A/SA-479	—	S82441	< 0.4375 [<11]	107/78 [740/540]	Bars	24Cr-4Ni-3Mn-1.5
10H	1	10.1	ASTM/ASME	A/SA-789	—	S32205		95/70 [655/485]	Seamless & Welded Tube	22Cr-5Ni-3Mo-N
10H	1	10.1	ASTM/ASME	A/SA-789	—	S82441	>=0.40 [>=10]	99/70 [680/480]	Seamless & Welded Tube	24Cr-4Ni-3Mn-1.5
10H	1	10.1	ASTM/ASME	A/SA-789	—	S82441	<0.40 [<10]	107/78 [740/540]	Seamless & Welded Tube	24Cr-4Ni-3Mn-1.5
10H	1	10.1	ASTM/ASME	A/SA-790	2205	S32205		95/65 [655/450]	Seamless & Welded Pipe	22Cr-5Ni-3Mo-N
10H	1	10.1	ASTM/ASME	A/SA-790	—	S82441	>=0.40 [>=10]	99/70 [680/480]	Seamless & Welded Pipe	24Cr-4Ni-3Mn-1.5
10H	1	10.1	ASTM/ASME	A/SA-790	—	S82441	<0.40 [<10]	107/78 [740/540]	Seamless & Welded Pipe	24Cr-4Ni-3Mn-1.5
10H	1	10.1	ASTM	A928	S31803	S31803		90/65 [620/450]	Welded Pipe	22Cr-5Ni-3Mo-N
10H	1	10.1	ASTM	A928	S32003	S32003	>3 [>5]	95/65 [655/450]	Welded Pipe	21Cr-3.5Ni-Mo-N
10H	1	10.1	ASTM	A928	S32003	S32003	<=0.1875 [<=5]	100/70 [690/485]	Welded Pipe	21Cr-3.5Ni-Mo-N
10H	1	10.1	ASTM	A928	2205	S32205		95/65 [655/450]	Welded pipe	22Cr-5Ni-3Mo-N
10H	1	10.1	ASTM	A928	2304	S32304		87/58 [600/400]	Welded Pipe	23Cr-4Ni-Mo-Cu-N
10H	1	10.2	ASTM	A928	2507	S32750		116/80 [800/550]	Welded Pipe	25Cr-7Ni-4Mo-N
11A	1	9.2	ASTM/ASME	A/SA-553	III	—		100/85 [690/585]	Plate	7Ni
11C	1	3.3	ASTM	A859	A Cl.1	K20747		65/55 [450/380]	Forgings	1Ni-1Cu-0.75Cr-Mo
11C	1	3.3	ASTM	A859	A Cl.2	K20747		75/65 [515/450]	Forgings	1Ni-1Cu-0.75Cr-Mo
15E	1	6.4	ASTM/ASME	A/SA-182	F91	K90901		90/60 [620/415]	Forgings	9Cr-1Mo-V
15E	1	6.4	ASTM/ASME	A/SA-217	C12A	J84090		85/60 [585/415]	Castings	9Cr-1Mo-V
15E	1	6.4	ASTM	A234	WP92	K92460		90/64 [620/440]	Piping Fittings	9Cr-2W
15E	1	6.4	ASTM/ASME	A/SA-336	F91	K90901		90/60 [620/415]	Forgings	9Cr-1Mo-V
15E	1	6.4	ASTM/ASME	A/SA-336	F92	K92460		90/64 [620/440]	Forgings	9Cr-2W
15E	1	6.4	ASTM/ASME	A/SA-387	91, Cl.2	K90901		85/60 [585/415]	Plate	9Cr-1Mo-V
15E	1	6.4	ASTM/ASME	A/SA-1017	92	K92460		90/64 [620/440]	Plate	9Cr-2W

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Table C.2 (Continued)
M-Number Listing of Base Metals—Ferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	Group Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Designation	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
Steel and Steel Alloys										
15E	1	6.4	ASTM	A1091	C91	J84090		85/60 [585/415]	Castings	9Cr-1Mo-V

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Table C.2
M-Number Listing of Base Metals—Nonferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Specification	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
34	34	ASTM/ASME	B/SB-111	—	C70620		40/15 [275/105]	Seamless Tube	90Cu-10Ni
34	34	ASTM/ASME	B/SB-111	—	C71520		52/18 [360/125]	Seamless Tube	70Cu-30Ni
34	34	ASTM/ASME	B/SB-151	—	C70620		38/15 [260/105]	Rod & Bar	90Cu-10Ni
34	34	ASTM/ASME	B/SB-171	—	C70620		40/15 [275/105]	Plate & Sheet	90Cu-10Ni
34	34	ASTM/ASME	B/SB-171	—	C71520	>2.5 and <=5 [>64 and <=127]	45/18 [310/125]	Plate & Sheet	70Cu-30Ni
34	34	ASTM/ASME	B/SB-171	—	C71520	<=2.5 [<=64]	50/20 [345/140]	Plate & Sheet	70Cu-30Ni
34	34	ASTM/ASME	B/SB-283	—	C70620	>6 [>150]	40/15 [275/105]	Forgings	90Cu-10Ni
34	34	ASTM/ASME	B/SB-283	—	C70620	<=6 [<=150]	45/18 [310/125]	Forgings	90Cu-10Ni
34	34	ASTM/ASME	B/SB-283	—	C71520	>6 [>150]	45/18 [310/125]	Forgings	70Cu-30Ni
34	34	ASTM/ASME	B/SB-283	—	C71520	<=6 [<=150]	50/20 [345/140]	Forgings	70Cu-30Ni
34	34	ASTM/ASME	B/SB-359	—	C70620		40/15 [275/105]	Seamless Tube	90Cu-10Ni
34	34	ASTM/ASME	B/SB-359	—	C71520		52/18 [360/125]	Seamless Tube	70Cu-30Ni
34	34	ASTM/ASME	B/SB-466	—	C70620		38/13 [260/90]	Seamless Pipe & Tube	90Cu-10Ni
34	34	ASTM/ASME	B/SB-466	—	C71520		52/18 [360/125]	Seamless Pipe & Tube	70Cu-30Ni
34	34	ASTM/ASME	B/SB-467	—	C70620	>4.5 [>114]	38/13 [260/90]	Welded Pipe	90Cu-10Ni
34	34	ASTM/ASME	B/SB-467	—	C70620	<=4.5 [<=114]	40/15 [275/105]	Plate & Sheet	90Cu-10Ni
34	34	ASTM/ASME	B/SB-467	—	C71520	>4.5 [>114]	45/15 [310/105]	Plate & Sheet	70Cu-30Ni
34	34	ASTM/ASME	B/SB-467	—	C71520	<=4.5 [<=114]	50/20 [345/140]	Plate & Sheet	70Cu-30Ni
34	34	ASTM/ASME	B/SB-543	—	C70620		40/15 [275/105]	Welded Tube	90Cu-10Ni
34	34	ASTM/ASME	B/SB-543	—	C71520		52/18 [360/125]	Welded Tube	70Cu-30Ni
34	34	ASTM/ASME	B/SB-956	—	C70620		40/15 [275/105]	Finned Welded Tube	90Cu-10Ni
34	34	ASTM/ASME	B/SB-956	—	C71520		52/18 [360/125]	Finned Welded Tube	70Cu-30Ni
35	35	ASTM/ASME	B/SB-148	—	C95800		85/35 [585/240]	Castings	81Cu-9Al-5Ni-4Fe-1Mn
35	35	ASTM/ASME	B/SB-148	—	C95820		94/39 [650/270]	Castings	81Cu-9Al-5Ni-5Fe-1Mn
41	41	ASTM	B725	—	N02201		50/12 [345/80]	Welded Pipe	99.0Ni-Low C
41	41	ASTM	B730	—	N02200		55/15 [380/105]	Welded Tube	99.0Ni
41	41	ASTM	B730	—	N02201		50/12 [345/80]	Welded Tube	99.0Ni-Low C
42	42	ASTM	B725	—	N04400		70/28 [485/195]	Welded Pipe	67Ni-30Cu
42	42	ASTM	B730	—	N04400		70/28 [485/195]	Welded Tube	67Ni-30Cu
43	43	ASTM/ASME	B/SB-366	—	N06002		100/40 [690/275]	Fittings	47Ni-22Cr-9Mo-18Fe

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Table C.2 (Continued)
M-Number Listing of Base Metals—Nonferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Specification	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
43	43	ASTM/ASME	B/SB-366	—	N06625		100/55 [690/380]	Fittings	60Ni-22Cr-9Mo-3.5Cb
43	43	ASTM/ASME	B/SB-366	—	N10362		105/45 [725/310]	Fittings	62Ni-22Mo-15Cr
43	43	ASTM/ASME	B/SB-443	1	N06625		110/55 [760/380]	Plate, Hot-Rolled	60Ni-22Cr-9Mo-3.5Cb
43	43	ASTM/ASME	B/SB-443	1	N06625		120/60 [825/415]	Cold Rolled Sheet	60Ni-22Cr-9Mo-3.5Cb
43	43	ASTM/ASME	B/SB-446	1	N06625	4-10 [100-250]	100/50 [690/345]	Rod & Bar	60Ni-22Cr-9Mo-3.5Cb
43	43	ASTM/ASME	B/SB-446	1	N06625	<4 [<100]	120/60 [825/415]	Rod & Bar	60Ni-22Cr-9Mo-3.5Cb
43	43	ASTM/ASME	B/SB-462	—	N10362		105/45 [725/310]	Forgings	62Ni-22Mo-15Cr
43	43	ASTM/ASME	B/SB-564	—	N10362		105/45 [725/310]	Forgings	62Ni-22Mo-15Cr
43	43	ASTM/ASME	B/SB-574	—	N06022		100/45 [690/310]	Rod	55Ni-21Cr-13.5Mo
43	43	ASTM/ASME	B/SB-574	—	N10362		105/45 [725/310]	Rod	62Ni-22Mo-15Cr
43	43	ASTM/ASME	B/SB-575	—	N06022		100/45 [690/310]	Plate, Sheet & Strip	55Ni-21Cr-13.5Mo
43	43	ASTM/ASME	B/SB-575	—	N10362		105/45 [725/310]	Plate, Sheet & Strip	62Ni-22Mo-15Cr
43	43	ASTM/ASME	B/SB-619	—	N10362		105/45 [725/310]	Welded Pipe	62Ni-22Mo-15Cr
43	43	ASTM/ASME	B/SB-622	—	N10362		105/45 [725/310]	Seamless Pipe & Tube	62Ni-22Mo-15Cr
43	43	ASTM/ASME	B/SB-626	—	N10362		105/45 [725/310]	Welded Tube	62Ni-22Mo-15Cr
43	43	ASTM/ASME	B/SB-704	1	N06625		120/60 [825/415]	Welded Tube	60Ni-22Cr-9Mo-3.5Cb
43	43	ASTM/ASME	B/SB-704	2	N06625		100/40 [690/275]	Welded Tube	60Ni-22Cr-9Mo-3.5Cb
43	43	ASTM/ASME	B/SB-705	1	N06625		120/60 [825/415]	Welded Pipe	60Ni-22Cr-9Mo-3.5Cb
43	43	ASTM/ASME	B/SB-705	2	N06625		100/40 [690/275]	Welded Pipe	60Ni-22Cr-9Mo-3.5Cb
45	8.2	ASTM/ASME	A/SA-182	—	N08367		95/45 [655/310]	Forgings	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-182	F904L	N08904		71/31 [490/215]	Forgings	44Fe-25Ni-21Cr-Mo
45	8.2	ASTM/ASME	A/SA-182	F58	S31266		109/61 [750/420]	Forgings	24Cr-22Ni-6Mo-3Mn-Cu-W-N
45	8.2	ASTM/ASME	A/SA-240	—	N08367	>=0.1875 [>=5]	95/45 [655/310]	Plate	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-240	—	N08367	<0.1875 [<5]	100/45 [690/310]	Sheet & Strip	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-240	904L	N08904		71/31 [490/215]	Plate, Sheet & Strip	44Fe-25Ni-21Cr-Mo
45	8.2	ASTM/ASME	A/SA-249	—	N08367	>0.1875 [>5]	95/45 [655/310]	Welded Tube	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-249	—	N08367	<=0.1875 [<=5]	100/45 [690/310]	Welded Tube	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-312	N08367	N08367	>0.1875 [>5]	95/45 [655/310]	Seamless & Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-312	N08367	N08367	<=0.1875 [<=5]	100/45 [690/310]	Seamless & Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-312	—	N08904		71/31 [490/215]	Seamless & Welded Pipe	44Fe-25Ni-21Cr-Mo

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M-Number Listing of Base Metals—Nonferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Specification	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
45	8.2	ASTM/ASME	A/SA-358	N08367	N08367	>=0.1875 [>=5]	95/45 [655/310]	Fusion Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-358	N08367	N08367	<0.1875 [<5]	100/45 [690/310]	Fusion Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-358	—	S31266		109/61 [750/420]	Fusion Welded Pipe	24Cr-22Ni-6Mo-3Mn-Cu-W-N
45	8.2	ASTM	A403	—	N08367		95/45 [655/310]	Wrought Piping Fittings	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-403	—	N08904		71/31 [490/215]	Wrought Piping Fittings	44Fe-25Ni-21Cr-Mo
45	8.2	ASTM/ASME	A/SA-479	—	N08367		95/45 [655/310]	Bars & Shapes	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-813	N08367	N08367	>0.1875 [>5]	95/45 [655/310]	Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-813	N08367	N08367	<=0.1875 [<=5]	100/45 [690/310]	Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-814	N08367	N08367	>0.1875 [>5]	95/45 [655/310]	Cold Worked Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	A/SA-814	N08367	N08367	<=0.1875 [<=5]	100/45 [690/310]	Cold Worked Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-366	—	N08367	>0.1875 [>4.8]	95/45 [655/310]	Fittings	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-366	—	N08367	<=0.1875 [<=4.8]	100/45 [690/310]	Fittings	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-462	—	N08367		95/45 [655/310]	Forgings	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-564	—	N08367		95/45 [655/310]	Forgings	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-675	—	N08367	>0.1875 [>4.8]	95/45 [655/310]	Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-675	—	N08367	<=0.1875 [<=4.8]	100/45 [690/310]	Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-676	—	N08367	>0.1875 [>4.8]	95/45 [655/310]	Welded Tube	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-676	—	N08367	<=0.1875 [<=4.8]	100/45 [690/310]	Welded Tube	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-688	—	N08367	>0.1875 [>4.8]	95/45 [655/310]	Plate, Sheet & Strip	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-688	—	N08367	<=0.1875 [<=4.8]	100/45 [690/310]	Plate, Sheet & Strip	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-690	—	N08367	>0.1875 [>4.8]	95/45 [655/310]	Seamless Pipe & Tube	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-690	—	N08367	<=0.1875 [<=4.8]	100/45 [690/310]	Seamless Pipe & Tube	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-691	—	N08367		95/45 [655/310]	Rod, Bar & Wire	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-804	—	N08367	>0.1875 [>5]	95/45 [655/310]	Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
45	8.2	ASTM/ASME	B/SB-804	—	N08367	<=0.1875 [<=5]	100/45 [690/310]	Welded Pipe	46Fe-24Ni-21Cr-6Mo-N
51	51.1	ASTM/ASME	B/SB-265	1	R50250		35/20 [240/140]	Plate, Sheet & Strip	Ti
51	51.2	ASTM/ASME	B/SB-265	2	R50400		50/40 [345/275]	Plate, Sheet & Strip	Ti
51	51.2	ASTM/ASME	B/SB-265	2H	R50400		58/40 [400/275]	Plate, Sheet & Strip	Ti
51	52	ASTM/ASME	B/SB-265	11	R52250		35/20 [240/140]	Plate, Sheet & Strip	Ti-Pd
51	51.1	ASTM/ASME	B/SB-265	17	R52252		35/20 [240/140]	Plate, Sheet & Strip	Ti-Pd

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Table C.2 (Continued)
M-Number Listing of Base Metals—Nonferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Specification	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
51	51.1	ASTM/ASME	B/SB-265	27	R52254		35/20 [240/140]	Plate, Sheet & Strip	Ti-Ru
51	52	ASTM/ASME	B/SB-265	7	R52400		50/40 [345/275]	Plate, Sheet & Strip	Ti-Pd
51	52	ASTM/ASME	B/SB-265	7H	R52400		58/40 [400/275]	Plate, Sheet & Strip	Ti-Pd
51	51.2	ASTM/ASME	B/SB-265	16	R52402		50/40 [345/275]	Plate, Sheet & Strip	Ti-Pd
51	51.2	ASTM/ASME	B/SB-265	16H	R52402		58/40 [400/275]	Plate, Sheet & Strip	Ti-Pd
51	51.2	ASTM/ASME	B/SB-265	26	R52404		50/40 [345/275]	Plate, Sheet & Strip	Ti-Ru
51	51.2	ASTM/ASME	B/SB-265	26H	R52404		58/40 [400/275]	Plate, Sheet & Strip	Ti-Ru
51	51.1	ASTM/ASME	B/SB-338	1	R50250		35/20 [240/140]	Seamless & Welded Tube	Ti
51	51.2	ASTM/ASME	B/SB-338	2	R50400		50/40 [345/275]	Seamless & Welded Tube	Ti
51	51.2	ASTM/ASME	B/SB-338	2H	R50400		58/40 [400/275]	Seamless & Welded Tube	Ti
51	52	ASTM/ASME	B/SB-338	7	R52400		50/40 [345/275]	Seamless & Welded Tube	Ti-Pd
51	52	ASTM/ASME	B/SB-338	7H	R52400		58/40 [400/275]	Seamless & Welded Tube	Ti-Pd
51	51.2	ASTM/ASME	B/SB-338	1	R52402		50/40 [345/275]	Seamless & Welded Tube	Ti-Pd
51	51.2	ASTM/ASME	B/SB-338	16	R52402		58/40 [400/275]	Seamless & Welded Tube	Ti-Pd
51	51.2	ASTM/ASME	B/SB-338	26	R52404		50/40 [345/275]	Seamless & Welded Tube	Ti-Ru
51	51.2	ASTM/ASME	B/SB-338	26H	R52404		58/40 [400/275]	Seamless & Welded Tube	Ti-Ru
51	51.1	ASTM/ASME	B/SB-348	1	R50250		35/20 [240/140]	Bars & Billets	Ti
51	51.2	ASTM/ASME	B/SB-348	2	R50400		50/40 [345/275]	Bars & Billets	Ti
51	51.2	ASTM/ASME	B/SB-348	2H	R50400		58/40 [400/275]	Bars & Billets	Ti
51	52	ASTM/ASME	B/SB-348	7	R52400		50/40 [345/275]	Bars & Billets	Ti-Pd
51	52	ASTM/ASME	B/SB-348	7H	R52400		58/40 [400/275]	Bars & Billets	Ti-Pd
51	51.2	ASTM/ASME	B/SB-348	16	R52402		50/40 [345/275]	Bars & Billets	Ti-Pd
51	51.2	ASTM/ASME	B/SB-348	16H	R52402		58/40 [400/275]	Bars & Billets	Ti-Pd
51	51.2	ASTM/ASME	B/SB-348	26	R52404		50/40 [345/275]	Bars & Billets	Ti-Ru
51	51.2	ASTM/ASME	B/SB-348	26H	R52404		58/40 [400/275]	Bars & Billets	Ti-Ru
51	51.1	ASTM/ASME	B/SB-363	WPT 1	R50250		35/25 [240/170]	Seamless & Welded Fittings	Ti
51	51.2	ASTM/ASME	B/SB-363	WPT 2	R50400		50/40 [345/275]	Seamless & Welded Fittings	Ti
51	52	ASTM/ASME	B/SB-363	WPT 7	R52400		50/40 [345/275]	Seamless & Welded Fittings	Ti-Pd
51	52	ASTM/ASME	B/SB-363	WPT 7H	R52400		58/40 [400/275]	Seamless & Welded Fittings	Ti-Pd
51	51.2	ASTM/ASME	B/SB-363	WPT 16	R52402		50/40 [345/275]	Seamless & Welded Fittings	Ti-Pd

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Table C.2 (Continued)
M-Number Listing of Base Metals—Nonferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Specification	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
51	51.2	ASTM/ASME	B/SB-363	WPT 16H	R52402		58/40 [400/275]	Seamless & Welded Fittings	Ti-Pd
51	51.2	ASTM/ASME	B/SB-363	WPT 26	R52404		50/40 [345/275]	Seamless & Welded Fittings	Ti-Ru
51	51.2	ASTM/ASME	B/SB-363	WPT 26H	R52404		58/40 [400/275]	Seamless & Welded Fittings	Ti-Ru
51	51.4	ASTM/ASME	B/SB-367	C-2	R52550		50/40 [345/275]	Castings	Ti
51	51.1	ASTM/ASME	B/SB-381	F-1	R50250		35/20 [240/140]	Forgings	Ti
51	51.2	ASTM/ASME	B/SB-381	F-2	R50400		50/40 [345/275]	Forgings	Ti
51	51.2	ASTM/ASME	B/SB-381	F-2H	R50400		58/40 [400/275]	Forgings	Ti
51	52	ASTM/ASME	B/SB-381	F-7	R52400		50/40 [345/275]	Forgings	Ti-Pd
51	52	ASTM/ASME	B/SB-381	F-7H	R52400		58/40 [400/275]	Forgings	Ti-Pd
51	51.2	ASTM/ASME	B/SB-381	F-16	R52402		50/40 [345/275]	Forgings	Ti-Pd
51	51.2	ASTM/ASME	B/SB-381	F-16H	R52402		58/40 [400/275]	Forgings	Ti-Pd
51	51.2	ASTM/ASME	B/SB-381	F-26	R52404		50/40 [345/275]	Forgings	Ti-Ru
51	51.2	ASTM/ASME	B/SB-381	F-26H	R52404		58/40 [400/275]	Forgings	Ti-Ru
51	51.1	ASTM/ASME	B/SB-861	1	R50250		35/20 [240/140]	Seamless Pipe	Ti
51	51.2	ASTM/ASME	B/SB-861	1	R50250		50/40 [345/275]	Seamless Pipe	Ti
51	51.2	ASTM/ASME	B/SB-861	2H	R50400		58/40 [400/275]	Seamless Pipe	Ti
51	52	ASTM/ASME	B/SB-861	7	R52400		50/40 [345/275]	Seamless Pipe	Ti-Pd
51	52	ASTM/ASME	B/SB-861	7H	R52400		58/40 [400/275]	Seamless Pipe	Ti-Pd
51	51.2	ASTM/ASME	B/SB-861	16	R52402		50/40 [345/275]	Seamless Pipe	Ti-Pd
51	51.2	ASTM/ASME	B/SB-861	16H	R52402		58/40 [400/275]	Seamless Pipe	Ti-Pd
51	51.2	ASTM/ASME	B/SB-861	26	R52404		50/40 [345/275]	Seamless Pipe	Ti-Ru
51	51.2	ASTM/ASME	B/SB-861	26H	R52404		58/40 [400/275]	Seamless Pipe	Ti-Ru
51	51.1	ASTM/ASME	B/SB-862	1	R50250		35/20 [240/140]	Welded Pipe	Ti
51	51.2	ASTM/ASME	B/SB-862	2	R50400		50/40 [345/275]	Welded Pipe	Ti
51	51.2	ASTM/ASME	B/SB-862	2H	R50400		58/40 [400/275]	Welded Pipe	Ti
51	52	ASTM/ASME	B/SB-862	7	R52400		50/40 [345/275]	Welded Pipe	Ti-Pd
51	52	ASTM/ASME	B/SB-862	7H	R52400		58/40 [400/275]	Welded Pipe	Ti-Pd
51	51.2	ASTM/ASME	B/SB-862	16	R52402		50/40 [345/275]	Welded Pipe	Ti-Pd
51	51.2	ASTM/ASME	B/SB-862	16H	R52402		58/40 [400/275]	Welded Pipe	Ti-Pd
51	51.2	ASTM/ASME	B/SB-862	26	R52404		50/40 [345/275]	Welded Pipe	Ti-Ru

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Table C.2 (Continued)
M-Number Listing of Base Metals—Nonferrous Alloys (see C.1, I2.2.1, and I3)

Material Number	ISO 15608 Group	Standard	Base Metal Specification	Type, Grade, or Alloy Specification	UNS Number	Thickness or Diameter Limitations, in [mm]	Minimum Tensile/Yield Strength, ksi [MPa]	Product Form	Nominal Composition
51	51.2	ASTM/ASME	B/SB-862	26H	R52404		58/40 [400/275]	Welded Pipe	Ti-Ru
52	51.3	ASTM/ASME	B/SB-265	3	R50550		65/55 [450/380]	Plate, Sheet & Strip	Ti
52	51.3	ASTM/ASME	B/SB-338	3	R50550		65/55 [450/380]	Seamless & Welded Tube	Ti
52	51.3	ASTM/ASME	B/SB-348	3	R50550		65/55 [450/380]	Bars & Billets	Ti
52	51.3	ASTM/ASME	B/SB-363	WPT 3	R50550		65/55 [450/380]	Seamless & Welded Fittings	Ti
52	51.4	ASTM/ASME	B/SB-367	C-3	R52550		65/55 [450/380]	Castings	Ti
52	51.3	ASTM/ASME	B/SB-381	F-3	R50550		65/55 [450/380]	Forgings	Ti
52	51.3	ASTM/ASME	B/SB-861	3	R50550		65/55 [450/380]	Seamless Pipe	Ti
52	51.3	ASTM/ASME	B/SB-862	3	R50550		65/55 [450/380]	Welded Pipe	Ti
54	53	ASTM/ASME	B/SB-265	38	R54250		130/115 [895/795]	Plate, Sheet & Strip	Ti-4Al-2.5V-1.5Fe
54	53	ASTM/ASME	B/SB-265	35	R56340		130/120 [895/825]	Plate, Sheet & Strip	Ti-4.5Al-2Mo-1.6V
54	53	ASTM/ASME	B/SB-338	38	R54250		130/115 [895/795]	Seamless & Welded Tube	Ti-4Al-2.5V-1.5Fe
54	53	ASTM/ASME	B/SB-338	35	R56340		130/120 [895/825]	Seamless & Welded Tube	Ti-4.5Al-2Mo-1.6V
54	53	ASTM/ASME	B/SB-348	38	R54250		130/115 [895/795]	Bars & Billets	Ti-4Al-2.5V-1.5Fe
54	53	ASTM/ASME	B/SB-348	35	R56340		130/120 [895/825]	Bars & Billets	Ti-4.5Al-2Mo-1.6V
54	53	ASTM/ASME	B/SB-363	WPT38	R54250		130/115 [895/795]	Seamless & Welded Fittings	Ti-4Al-2.5V-1.5Fe
54	53	ASTM/ASME	B/SB-381	F-38	R54250		130/115 [895/795]	Forgings	Ti-4Al-2.5V-1.5Fe
54	53	ASTM/ASME	B/SB-861	38	R54250		130/115 [895/795]	Seamless Pipe	Ti-4Al-2.5V-1.5Fe
54	53	ASTM/ASME	B/SB-861	35	R56340		130/120 [895/825]	Seamless Pipe	Ti-4.5Al-2Mo-1.6V
54	53	ASTM/ASME	B/SB-862	38	R54250		130/115 [895/795]	Welded Pipe	Ti-4Al-2.5V-1.5Fe
54	53	ASTM/ASME	B/SB-862	35	R56340		130/120 [895/825]	Welded Pipe	Ti-4.5Al-2Mo-1.6V

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[New] Addition of Table C.4, *List of Base Metal Specifications for Standard Welding Procedure Specifications for Naval Applications—Ferrous Alloys* as follows:

Table C.4
List of Base Metal Specifications for Standard Welding Procedure Specifications for Naval Applications - Ferrous Alloys

Source	Standard	Base Metal Specification	Material Number	Type Grade or Alloy Designation	UNS Number	Product Form
TP278	ASTM	A 167	S-8	Type 316L	S31603	Plate, Sheet and Strip
TP248	ASTM	A 216	S-1	Grade WCB	J03002	Castings
TP248	ASTM	A 240	S-8	Type 304	S30400	Plate, Sheet and Strip
TP248	ASTM	A 240	S-8	Type 304L	S30403	Plate, Sheet and Strip
TP248	ASTM	A 240	S-8	Type 316	S31600	Plate, Sheet and Strip
TP248	ASTM	A 240	S-8	Type 316L	S31603	Plate, Sheet and Strip
TP248	ASTM	A 240	S-8	Type 321	S32100	Plate, Sheet and Strip
TP248	ASTM	A 240	S-8	Type 347	S34700	Plate, Sheet and Strip
TP248	ASTM	A 240	S-8	Type 348	S34800	Plate, Sheet and Strip
TP248	ASTM	A 515	S-1	Grade 55	K02001	Plate and Shapes
TP248	ASTM	A 515	S-1	Grade 60	K02401	Plate
TP248	ASTM	A 515	S-1	Grade 65	K02800	Plate
TP248	ASTM	A 515	S-1	Grade 70	K03101	Plate
TP248	ASTM	A 516	S-1	Grade 70	K02700	Plate
TP248	Federal Specification	QQ-S-763	S-8	304	S30400	Bars, Wire, Shapes & Forgings
TP248	Federal Specification	QQ-S-763	S-8	304L	S30403	Bars, Wire, Shapes & Forgings
TP248	Federal Specification	QQ-S-763	S-8	316	S31600	Bars, Wire, Shapes & Forgings
TP248	Federal Specification	QQ-S-763	S-8	316L	S31603	Bars, Wire, Shapes & Forgings
TP248	Federal Specification	QQ-S-763	S-8	321	S32100	Bars, Wire, Shapes & Forgings
TP248	Federal Specification	QQ-S-763	S-8	347	S34700	Bars, Wire, Shapes & Forgings
TP248	Federal Specification	QQ-S-766	S-8	304	S30400	Plate, Sheet & Strip
TP248	Federal Specification	QQ-S-766	S-8	304L	S30403	Plate, Sheet & Strip
TP248	Federal Specification	QQ-S-766	S-8	316	S31600	Plate, Sheet & Strip
TP248	Federal Specification	QQ-S-766	S-8	316L	S31603	Plate, Sheet & Strip
TP248	Federal Specification	QQ-S-766	S-8	321	S32100	Plate, Sheet & Strip
TP248	Federal Specification	QQ-S-766	S-8	347	S34700	Plate, Sheet & Strip
TP248	Federal Specification	QQ-S-766	S-8	348	S34800	Plate, Sheet & Strip
TP248	Military Specification	MIL-C-24707/3	S-8	ASTM A744 Grade CF-8	J92600	Castings

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Table C.4 (Continued)

List of Base Metal Specifications for Standard Welding Procedure Specifications for Naval Applications - Ferrous Alloys

Source	Standard	Base Metal Specification	Material Number	Type Grade or Alloy Designation	UNS Number	Product Form
TP248	Military Specification	MIL-C-24707/3	S-8	ASTM A744 Grade CF-8C	J92710	Castings
TP248	Military Specification	MIL-C-24707/3	S-8	ASTM A744 Grade CF-8M	J92200	Castings
TP248	Military Specification	MIL-F-20236	S-1	Type I Class 1	—	Tube & Pipe Butt-Welding Fittings
TP248	Military Specification	MIL-F-20236	S-1	Type I Class 2	—	Tube & Pipe Butt-Welding Fittings
TP248	Military Specification	MIL-F-20236	S-1	Type II Class 1	—	Tube & Pipe Butt-Welding Fittings
TP248	Military Specification	MIL-F-20236	S-1	Type II Class 2	—	Tube & Pipe Butt-Welding Fittings
TP248	Military Specification	MIL-F-20670	S-1	Type A	—	Pipe Flanges
TP248	Military Specification	MIL-F-20670	S-1	Type B	—	Pipe Flanges
TP248	Military Specification	MIL-F-20670	S-1	Type C	—	Pipe Flanges
TP248	Military Specification	MIL-F-20670	S-1	Type D	—	Pipe Flanges
TP248	Military Specification	MIL-F-23467	S-8	304	S30400	Seamless Fitting & Flanges
TP248	Military Specification	MIL-F-23467	S-8	304L	S30403	Seamless Fitting & Flanges
TP248	Military Specification	MIL-F-23467	S-8	347	S34700	Seamless Fitting & Flanges
TP248	Military Specification	MIL-F-23467	S-8	348	S34800	Seamless Fitting & Flanges
TP278	Military Specification	MIL-P-24691/3	S-8	304	S30400	Seamless or Welded Pipe & Tube
TP278	Military Specification	MIL-P-24691/3	S-8	304L	S30403	Seamless or Welded Pipe & Tube
TP278	Military Specification	MIL-P-24691/3	S-8	316	S31600	Seamless or Welded Pipe & Tube
TP278	Military Specification	MIL-P-24691/3	S-8	316L	S31603	Seamless or Welded Pipe & Tube
TP278	Military Specification	MIL-P-24691/3	S-8	321	S32100	Seamless or Welded Pipe & Tube
TP278	Military Specification	MIL-P-24691/3	S-8	347	S34700	Seamless or Welded Pipe & Tube
TP278	Military Specification	MIL-S-1222/MIL-DTL-1222, ASTM F 593	S-8	Alloy 304 (Condition A only)	S30400	Nuts
TP248	Military Specification	MIL-S-15083	S-1	Grade 65-35	—	Castings
TP248	Military Specification	MIL-S-15083	S-1	Grade 70-36	—	Castings
TP248	Military Specification	MIL-S-15083	S-1	Grade B	—	Castings
TP248	Military Specification	MIL-S-15083	S-1	Grade CW	—	Castings
TP248	Military Specification	MIL-S-22698	S-1	Type I Class A	—	Plate, Bars and Shapes
TP248	Military Specification	MIL-S-22698	S-1	Type I Class B	—	Plate, Bars and Shapes
TP248	Military Specification	MIL-S-22698	S-1	Type I Class C	—	Plate, Bars and Shapes
TP248	Military Specification	MIL-S-22698	S-1	Type II Class A	—	Plate, Bars and Shapes
TP248	Military Specification	MIL-S-22698	S-1	Type II Class B	—	Plate, Bars and Shapes
TP248	Military Specification	MIL-S-22698	S-1	Type II Class C	—	Plate, Bars and Shapes
TP248	Military Specification	MIL-S-22698	S-1	Type III Class A	—	Plate, Bars and Shapes

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Table C.4 (Continued)

List of Base Metal Specifications for Standard Welding Procedure Specifications for Naval Applications - Ferrous Alloys

Source	Standard	Base Metal Specification	Material Number	Type Grade or Alloy Designation	UNS Number	Product Form
TP248	Military Specification	MIL-S-22698	S-1	Type III Class B	—	Plate, Bars and Shapes
TP248	Military Specification	MIL-S-22698	S-1	Type III Class C	—	Plate, Bars and Shapes
TP248	Military Specification	MIL-S-23193	S-8	Composition A (304). Formerly Class 1	S30400	Castings
TP248	Military Specification	MIL-S-23193	S-8	Composition B (348). Formerly Class II	S34800	Castings
TP248	Military Specification	MIL-S-23193	S-8	Composition C (316). Formerly Class III	S31600	Castings
TP248	Military Specification	MIL-S-23194	S-1	Composition C Type 1	—	Forging
TP248	Military Specification	MIL-S-23194	S-1	Composition C Type 2	—	Forging
TP248	Military Specification	MIL-S-23195	S-8	304	S30400	Forgings
TP248	Military Specification	MIL-S-23195	S-8	304L	S30403	Forgings
TP248	Military Specification	MIL-S-23195	S-8	347	S34700	Forgings
TP248	Military Specification	MIL-S-23195	S-8	348	S34800	Forgings
TP248	Military Specification	MIL-S-23196	S-8	304	S30400	Plate, Sheet & Strip
TP248	Military Specification	MIL-S-23196	S-8	304L	S30403	Plate, Sheet & Strip
TP248	Military Specification	MIL-S-23196	S-8	347	S34700	Plate, Sheet & Strip
TP248	Military Specification	MIL-S-23196	S-8	348	S34800	Plate, Sheet & Strip
TP248	Military Specification	MIL-S-23284	S-1	Class 3	—	Forging
TP248	Military Specification	MIL-S-23284	S-1	Class 4	—	Forging
TP248	Military Specification	MIL-S-24093	S-1	Class H, Type V	—	Forging
TP248	Military Specification	MIL-S-24238	S-1	Composition C	—	Plate
TP248	Military Specification	MIL-S-24412	S-1	Grade HT	—	Shape
TP248	Military Specification	MIL-T-16286	S-1	Class a	—	Seamless Tube
TP248	Military Specification	MIL-T-16286	S-8	Class c	—	Seamless Tube
TP248	Military Specification	MIL-T-16286	S-1	Class g	—	Seamless Tube
TP248	Military Specification	MIL-T-20157	S-1	Type E	—	Seamless Tube & Pipe
TP248	Military Specification	MIL-T-23226	S-8	304	S30400	Seamless Tube & Pipe
TP248	Military Specification	MIL-T-23226	S-8	304L	S30403	Seamless Tube & Pipe
TP248	Military Specification	MIL-T-23226	S-8	347	S34700	Seamless Tube & Pipe
TP248	Military Specification	MIL-T-23226	S-8	348	S34800	Seamless Tube & Pipe
TP248	Military Specification	MIL-T-8504	S-8	304	S30400	Seamless & Welded Tubing
TP248	WW-P-404	WW-P-404	S-1	Type E Grade A Class A53A ERW	—	Seamless Pipe
TP248	WW-P-404	WW-P-404	S-1	Type E Grade A Class A53A ERW XS	—	Electric-Resistance Welded Pipe
TP248	WW-P-404	WW-P-404	S-1	Type E Grade A Class A53A ERW XXS	—	Seamless Pipe

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Table C.4 (Continued)

List of Base Metal Specifications for Standard Welding Procedure Specifications for Naval Applications - Ferrous Alloys

Source	Standard	Base Metal Specification	Material Number	Type Grade or Alloy Designation	UNS Number	Product Form
TP248	WW-P-404	WW-P-404	S-1	Type E Grade B Class A53B ERW	—	Electric-Resistance Welded Pipe
TP248	WW-P-404	WW-P-404	S-1	Type E Grade B Class A53B ERW XS	—	Seamless Pipe
TP248	WW-P-404	WW-P-404	S-1	Type E Grade B Class A53B ERW XXS	—	Seamless Pipe
TP248	WW-P-404	WW-P-404	S-1	Type F Class A53 BW	—	Furnace Butt Welded Pipe
TP248	WW-P-404	WW-P-404	S-1	Type F Class A53 BW XS	—	Furnace Butt Welded Pipe
TP248	WW-P-404	WW-P-404	S-1	Type F Class A53 BW XXS	—	Furnace Butt Welded Pipe
TP248	WW-P-404	WW-P-404	S-1	Type S Grade A Class A53A S	—	Seamless Pipe
TP248	WW-P-404	WW-P-404	S-1	Type S Grade A Class A53A S XS	—	Seamless Pipe
TP248	WW-P-404	WW-P-404	S-1	Type S Grade A Class A53A S XXS	—	Seamless Pipe
TP248	WW-P-404	WW-P-404	S-1	Type S Grade B Class A53B S	—	Seamless Pipe
TP248	WW-P-404	WW-P-404	S-1	Type S Grade B Class A53B S XS	—	Seamless Pipe
TP248	WW-P-404	WW-P-404	S-1	Type S Grade B Class A53B S XXS	—	Seamless Pipe

The purpose of this addenda notice is to inform the public that a published standard has been technically modified. An addenda is an addition or supplement to a published standard or portions thereof required before the complete revision and publication of the next edition of the standard.