



Designation: **B179—14 B179 – 17**

# Standard Specification for Aluminum Alloys in Ingot and Molten Forms for Castings from All Casting Processes<sup>1</sup>

This standard is issued under the fixed designation B179; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

*This standard has been approved for use by agencies of the U.S. Department of Defense.*

## 1. Scope\*

1.1 This specification covers commercial aluminum alloys in ingot form for remelting and molten form for the manufacture of castings. The specific gravity of these alloys does not exceed 3.0 and they are designated as shown in [Table 1](#).

NOTE 1—Throughout this specification the use of “ingot” in a general sense includes sow, T-bar, T-ingot, and pig.

1.2 Alloy designations are in accordance with ANSI H35.1/H35.1(M). ~~The equivalent Unified Numbering System alloy designations are in accordance with Practice E527.~~

NOTE 2—Supplementary data pertaining to the alloys covered by this specification when used in the form of castings are given in Specifications [B26/B26M](#), [B85/B85M](#), [B108/B108M](#), [B618/B618M](#), [B686/B686M](#), [B955/B955M](#) and, and [B955/B955MB969/B969M](#).

1.3 Unless the order specifies the “M” specification designation, the material shall be furnished to the inch-pound units.

1.4 For acceptance criteria for inclusion of new aluminum and aluminum alloys in this specification, see [Annex A1](#).

1.5 The values stated in inch-pound units are to be regarded as standard. No other units of measurement are included in this standard.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and ~~health~~ environmental practices and determine the applicability of regulatory limitations prior to use.*

1.7 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

## 2. Referenced Documents

2.1 The following documents of the issue in effect on date of material purchase form a part of this specification to the extent referenced herein:

2.2 *ASTM Standards:*<sup>2</sup>

[B26/B26M Specification for Aluminum-Alloy Sand Castings](#)

[B85/B85M Specification for Aluminum-Alloy Die Castings](#)

[B108/B108M Specification for Aluminum-Alloy Permanent Mold Castings](#)

[B618/B618M Specification for Aluminum-Alloy Investment Castings](#)

[B666/B666M Practice for Identification Marking of Aluminum and Magnesium Products](#)

[B686/B686M Specification for Aluminum Alloy Castings, High-Strength](#)

[B985 Practice for Sampling Aluminum Ingots, Billets, Castings and Finished or Semi-Finished Wrought Aluminum Products for Compositional Analysis](#)

[B955/B955M Specification for Aluminum-Alloy Centrifugal Castings](#)

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee B07 on Light Metals and Alloys and is the direct responsibility of Subcommittee B07.01 on Aluminum Alloy Ingots and Castings.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.

\*A Summary of Changes section appears at the end of this standard

**TABLE 1 Chemical Composition Limits of Aluminum Alloys in Ingot and Molten Forms for All Casting Processes<sup>A-A,B,C,DB</sup>**

**This Table has been reprinted by the permission of the Aluminum Association, Inc.**

Only composition limits which are identical to those listed herein or are registered with the Aluminum Association should be designated as "AA" alloys.

NOTE 1—Where single units are shown, these indicate the maximum amounts permitted.

NOTE 2—Analysis shall be made for those elements for which limits are shown in this table.

NOTE 3—The following applies to all specified limits in the table: For purposes of acceptance or rejection an observed value or a calculated value obtained from analysis should be rounded to the nearest unit in the last right-hand place of figures used in expressing the specified limit in accordance with the rounding-off method of Practice E29.

Registered Alloys in the Form of XXX.1 Ingot and XXX.2 Ingot  
Designation Composition, %

AA No.	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Others <sup>D</sup>		Aluminum Minimum	Registered Date	Products		
												Each	Total <sup>E</sup>					
DESIG. <sup>S</sup> AA No.	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ag	Be	Pb	Sn	Zr	FNs	OTHERS <sup>F</sup> Each Total <sup>F</sup>	Al Min.	
100.1 <sup>A</sup>	...	06/30/70	Ingot	0.15	0.6-0.8	0.10	...	...	...	...	0.05	...	...	0.03 <sup>F</sup>	...	0.10	99.00 <sup>G</sup>	
100.1*	0.15	0.6-0.8	0.10	...	...	...	...	0.05	...	...	...	...	...	...	...	0.025 Mn+Cr+Ti+V	99.00 <sup>G</sup>	
130.1*	...	...	0.10	...	...	...	...	0.05	...	...	...	...	...	...	...	0.025 Mn+Cr+Ti+V, 2.5 min. Fe/Si ratio	99.30 <sup>G</sup>	
150.1*	...	...	0.05	...	...	...	...	0.05	...	...	...	...	...	...	...	0.025 Mn+Cr+Ti+V, 2.0 min. Fe/Si ratio	99.50 <sup>G</sup>	
130.1 <sup>A</sup>	...	06/30/70	Ingot	...	...	0.10	...	...	...	...	0.05	...	...	0.03 <sup>F</sup>	...	0.40	99.30 <sup>G</sup>	
160.1	0.10	0.25	...	...	...	...	...	0.05	...	...	...	...	...	...	...	0.025 Mn+Cr+Ti+V, 2.0 min. Fe/Si ratio	99.60 <sup>G</sup>	
170.1*	...	...	...	...	...	...	...	0.05	...	...	...	...	...	...	...	0.025 Mn+Cr+Ti+V, 1.5 min. Fe/Si ratio	99.70 <sup>G</sup>	
201.2	0.10	0.10	4.0-5.2	0.20-0.50	0.20-0.55	...	...	...	0.15-0.35	0.40-1.0	...	...	...	...	...	0.05	0.10	Rem.
150.1 <sup>A</sup>	...	06/30/70	Ingot	...	...	0.05	...	...	...	...	0.05	...	...	0.03 <sup>F</sup>	...	0.40	99.50 <sup>G</sup>	
A201.1	0.05	0.07	4.0-5.0	0.20-0.40	0.20-0.35	...	...	...	0.15-0.35	0.40-1.0	...	...	...	...	...	0.03	0.10	Rem.
160.1	...	04/28/76	Ingot	0.10 <sup>L</sup>	0.25 <sup>L</sup>	...	...	...	...	...	0.05	...	...	0.03 <sup>F</sup>	...	0.40	99.60 <sup>G</sup>	
203.2	0.20	0.35	4.8-5.2	0.20-0.30	0.10	...	1.3-1.7	0.10	0.15-0.25	...	...	...	0.10-0.30	...	0.20-0.30 Co, 0.20-0.30 Sb, 0.50 Ti + Zr	0.05	0.20	Rem.
170.1 <sup>A</sup>	...	06/30/70	Ingot	...	...	...	...	...	...	...	0.05	...	...	0.03 <sup>F</sup>	...	0.40	99.70 <sup>G</sup>	
204.2	0.15	0.10-0.20	4.2-4.9	0.05	0.20-0.35	...	0.03	0.05	0.15-0.25	...	...	...	0.05	...	...	0.05	0.15	Rem.
201.2	...	04/17/68	Ingot	0.10	0.10	4.0-5.2	0.20-0.50	0.20-0.55	...	...	...	0.15-0.35	...	0.05 <sup>K</sup>	...	0.10	Re-main-der	
205.2 <sup>L</sup>	0.07	0.05	4.2-5.0	...	0.25-0.33	...	...	...	0.50	0.6-0.9	...	...	...	...	...	0.08	0.17	Rem.
A201.1	A201.2	10/09/70	Ingot	0.05	0.07	4.0-5.0	0.20-0.40	0.20-0.35	...	...	...	0.15-0.35	...	0.03 <sup>K</sup>	...	0.10	Re-main-der	
203.2	Hyduminium 350	12/02/72	Ingot	0.20	0.35	4.8-5.2	0.20-0.30	0.10	...	1.3-1.7	0.10	0.15-0.25	...	0.05 <sup>L</sup>	...	0.20	Re-main-der	

TABLE 1—Continued

AA No.	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Composition, %		Others <sup>D</sup>	Aluminum Minimum	Registered Date	Products <sup>C</sup>		
												Each	Total <sup>E</sup>						
204.2	A-U5GT	10/01/74	Ingot	0.15	0.10-0.20	4.2-4.9	0.05	0.20-0.35	...	0.03	0.05	0.15-0.25	0.05	0.05	0.15	Remainder			
206.2	0.10	0.10	4.2-5.0	0.20-0.50	0.20-0.35	...	0.03	0.05	0.15-0.25	...	...	...	0.05	...	...	...	0.05	0.15	Rem.
206.2	...	04/23/76	Ingot	0.10	0.10	4.2-5.0	0.20-0.50	0.20-0.35	...	0.03	0.05	0.15-0.25	0.05	0.05	0.15	Remainder			
A206.2	0.05	0.07	4.2-5.0	0.20-0.50	0.20-0.35	...	0.03	0.05	0.15-0.25	...	...	...	0.05	...	...	...	0.05	0.15	Rem.
A206.2	...	04/23/76	Ingot	0.05	0.07	4.2-5.0	0.20-0.50	0.20-0.35	...	0.03	0.05	0.15-0.25	0.05	0.05	0.15	Remainder			
B206.2	...	07/07/03	Ingot	0.05	0.07	4.2-5.0	0.20-0.50	0.20-0.35	...	0.03	0.05	0.05	0.05	0.05	0.15	Remainder			
B206.2	0.05	0.07	4.2-5.0	0.20-0.50	0.20-0.35	...	0.03	0.05	0.05	...	...	...	0.05	...	...	...	0.05	0.15	Rem.
240.1	0.50	0.40	7.0-9.0	0.30-0.7	5.6-6.5	...	0.300.7	0.10	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
242.1	0.7	0.8	3.5-4.5	0.35	1.3-1.8	0.25	1.7-2.3	0.35	0.25	...	...	...	...	...	...	...	0.05	0.15	Rem.
240.1	A240.1, A140	...	Ingot	0.50	0.40	7.0-9.0	0.30-0.7	5.6-6.5	...	0.30-0.7	0.10	0.20	...	0.05	0.15	Remainder			
242.2	0.6	0.6	3.5-4.5	0.10	1.3-1.8	...	1.7-2.3	0.10	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
A242.1	0.6	0.6	3.7-4.5	0.10	1.3-1.7	0.15-0.25	1.8-2.3	0.10	0.07-0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
242.1	142	...	Ingot	0.7	0.8	3.5-4.5	0.35	1.3-1.8	0.25	1.7-2.3	0.35	0.25	...	0.05	0.15	Remainder			
242.2	142	...	Ingot	0.6	0.6	3.5-4.5	0.10	1.3-1.8	...	1.7-2.3	0.10	0.20	...	0.05	0.15	Remainder			
A242.2	0.35	0.6	3.7-4.5	0.10	1.3-1.7	0.15-0.25	1.8-2.3	0.10	0.07-0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
A242.1	A142	...	Ingot	0.6	0.6	3.7-4.5	0.10	1.3-1.7	0.15-0.25	1.8-2.3	0.10	0.07-0.20	...	0.05	0.15	Remainder			
A242.2	A142	...	Ingot	0.35	0.6	3.7-4.5	0.10	1.3-1.7	0.15-0.25	1.8-2.3	0.10	0.07-0.20	...	0.05	0.15	Remainder			
295.1	0.7-1.5	0.8	4.0-5.0	0.35	0.03	...	...	0.35	0.25	...	...	...	...	...	...	...	0.05	0.15	Rem.
295.1	195	...	Ingot	0.7-1.5	0.8	4.0-5.0	0.35	0.03	...	...	0.35	0.25	...	0.05	0.15	Remainder			
295.2	195	...	Ingot	0.7-1.2	0.8	4.0-5.0	0.30	0.03	...	...	0.30	0.20	...	0.05	0.15	Remainder			
295.2	0.7-1.2	0.8	4.0-5.0	0.30	0.03	...	...	0.30	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
296.1	B295.1, B195	...	Ingot	2.0-3.0	0.9	4.0-5.0	0.35	0.05	...	0.35	0.50	0.25	...	...	0.35	Remainder			

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TABLE 1—Continued

AA No.	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Composition, %		Others <sup>D</sup>	Alu- mi- num Mini- mum	Registered Date	Products <sup>C</sup>		
												Each	Total <sup>E</sup>						
296.1	2.0–3.0	0.9 ...	4.0–5.0 Ingot	0.35 2.0–3.0	0.05	...	0.35	0.50	0.25	...	...	...	...	...	...	...	0.35	Rem.	
296.2	B295.2, B195	...	...	...	0.8	4.0–5.0	0.30	0.03	...	...	0.30	0.20	...	0.05	0.15	...	Remain- der		
296.2	2.0–3.0	0.8	4.0–5.0	0.30	0.03	...	...	0.30	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
301.1 <sup>L,M</sup>	9.5–10.5	0.8–1.2	3.0–3.5	0.50–0.8	0.30–0.50	...	1.0–1.5	0.05	0.20	...	...	...	...	...	...	...	0.03	0.10	Rem.
301.1 <sup>M</sup>	...	08/02/94	Ingot <sup>N</sup>	9.5–10.5	0.8–1.2	3.0–3.5	0.50–0.8	0.30–0.50	...	1.0– 1.5	0.05	0.20	...	0.03	0.10	...	Remain- der		
302.1 <sup>L,M</sup>	9.5–10.5	0.20	2.8–3.2	...	0.8–1.2	...	1.0–1.5	0.05	0.20	...	...	...	...	...	...	...	0.03	0.10	Rem.
303.1 <sup>L,M</sup>	9.5–10.5	0.8–1.2	0.20	0.50–0.8	0.50–0.7	...	...	0.05	0.20	...	...	...	...	...	...	...	0.03	0.10	Rem.
302.1 <sup>M</sup>	...	08/02/94	Ingot <sup>N</sup>	9.5–10.5	0.20	2.8–3.2	...	0.8–1.2	...	1.0– 1.5	0.05	0.20	...	0.03	0.10	...	Remain- der		
304.1 <sup>M</sup>	9.5–11.5	0.8–1.0	0.05–0.08	0.30–0.50	0.35–0.50	0.05	0.03	0.20	0.03–0.18	...	...	...	0.03	...	...	...	0.03	0.15	Rem.
303.1 <sup>M</sup>	...	08/02/94	Ingot <sup>N</sup>	9.5–10.5	0.8–1.2	0.20	0.50–0.8	0.50–0.7	...	...	0.05	0.20	...	0.03	0.10	...	Re- main- der		
308.1 <sup>M</sup>	5.0–6.0	0.8	4.0–5.0	0.50	0.10	...	...	1.0	0.25	...	...	...	...	...	...	...	...	0.50	Rem.
308.1 <sup>M</sup>	A108	...	Ingot	5.0–6.0	0.8	4.0–5.0	0.50	0.10	...	...	1.0	0.25	...	...	0.50	...	Re- main- der		
308.2 <sup>M</sup>	A108	...	Ingot	5.0–6.0	0.8	4.0–5.0	0.30	0.10	...	...	0.50	0.20	...	...	0.50	...	Re- main- der		
308.2 <sup>M</sup>	5.0–6.0	0.8	4.0–5.0	0.30	0.10	...	...	0.50	0.20	...	...	...	...	...	...	...	...	0.50	Rem.
318.1 <sup>M</sup>	...	01/29/91	Ingot	5.5–6.5	0.8	3.0–4.0	0.50	0.15–0.6	...	0.35	0.9	0.25	...	...	0.50	...	Re- main- der		
318.1 <sup>M</sup>	5.5–6.5	0.8	3.0–4.0	0.50	0.15–0.6	...	0.35	0.9	0.25	...	...	...	...	...	...	...	...	0.50	Rem.
319.1 <sup>M</sup>	319, All-Cast	...	Ingot	5.5–6.5	0.8	3.0–4.0	0.50	0.10	...	0.35	1.0	0.25	...	...	0.50	...	Re- main- der		
319.1 <sup>M</sup>	5.5–6.5	0.8	3.0–4.0 Ingot	0.50 5.5–6.5	0.10	...	0.35	1.0	0.25	...	...	...	...	...	...	...	...	0.50	Rem.
319.2 <sup>M</sup>	319, All-Cast	...	...	...	0.6	3.0–4.0	0.10	0.10	...	0.10	0.10	0.20	...	...	0.20	...	Re- main- der		
319.2 <sup>M</sup>	5.5–6.5	0.6	3.0–4.0	0.10	0.10	...	0.10	0.10	0.20	...	...	...	...	...	...	...	...	0.20	Rem.
A319.1 <sup>M</sup>	...	08/28/70	Ingot	5.5–6.5	0.8	3.0–4.0	0.50	0.10	...	0.35	3.0	0.25	...	...	0.50	...	Re- main- der		
A319.1 <sup>M</sup>	5.5–6.5	0.8	3.0–4.0	0.50	0.10	...	0.35	3.0	0.25	...	...	...	...	...	...	...	...	0.50	Rem.
B319.1 <sup>M</sup>	...	10/30/81	Ingot	5.5–6.5	0.9	3.0–4.0	0.8	0.15–0.50	...	0.50	1.0	0.25	...	...	0.50	...	Re- main- der		
B319.1 <sup>M</sup>	5.5–6.5	0.9	3.0–4.0	0.8	0.15–0.50	...	0.50	1.0	0.25	...	...	...	...	...	...	...	...	0.50	Rem.

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TABLE 1—Continued

AA- <u>No.</u>	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Composition, %		Others <sup>D</sup>	Alu- mi- num Mini- mum	Re- main- der	Re- main- der	Registered Date	Products <sup>C</sup>
												Each	Total <sup>E</sup>						
320.1 <sup>M</sup>	...	04/08/82	Ingot	5.0-8.0		0.9	2.0-4.0	0.8	0.10-0.6	...	0.35	3.0	0.25	...	...	0.50			
320.1 <sup>M</sup>	5.0-8.0	0.9	2.0-4.0	0.8	0.10-0.6	...	0.35	3.0	0.25	...	...	...	...	...	...	...	0.50	Rem.	
328.1 <sup>M</sup>	Red X-8	...	Ingot	7.5-8.5		0.8	1.0-2.0	0.20-0.6	0.25-0.6	0.35	0.25	1.5	0.25	...	...	0.50			
328.1 <sup>M</sup>	7.5-8.5	0.8	1.0-2.0	0.20-0.6	0.25-0.6	0.35	0.25	1.5	0.25	...	...	...	...	...	...	...	0.50	Rem.	
332.1 <sup>M</sup>	8.5-10.5	0.9	2.0-4.0	0.50	0.6-1.5	...	0.50	1.0	0.25	...	...	...	...	...	...	...	0.50	Rem.	
332.2 <sup>M</sup>	8.5-10.0	0.6	2.0-4.0	0.10	0.9-1.3	...	0.10	0.10	0.20	...	...	...	...	...	...	...	0.30	Rem.	
332.1 <sup>M</sup>	F332.1, F132	...	Ingot	8.5-10.5	0.9	2.0-4.0	0.50	0.6-1.5	...	0.50	1.0	0.25	...	...	...	0.50			
333.1 <sup>M</sup>	8.5-10.0	0.8	3.0-4.0	0.50	0.10-0.50	...	0.50	1.0	0.25	...	...	...	...	...	...	...	0.50	Rem.	
A333.1 <sup>M</sup>	8.5-10.0	0.8	3.0-4.0	0.50	0.10-0.50	...	0.50	3.0	0.25	...	...	...	...	...	...	...	0.50	Rem.	
336.1 <sup>M</sup>	11.0-13.0	0.9	0.50-1.5	0.35	0.8-1.3	...	2.0-3.0	0.35	0.25	...	...	...	...	...	...	...	0.05	...	Rem.
336.2 <sup>M</sup>	11.0-13.0	0.9	0.50-1.5	0.10	0.9-1.3	...	2.0-3.0	0.10	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
339.1 <sup>M</sup>	11.0-13.0	0.9	1.5-3.0	0.50	0.6-1.5	...	0.50-1.5	1.0	0.25	...	...	...	...	...	...	...	0.50	...	Rem.
332.2 <sup>M</sup>	F332.2, F132	...	Ingot	8.5-10.0	0.6	2.0-4.0	0.10	0.9-1.3	...	0.10	0.10	0.20	...	...	...	0.30			
354.1 <sup>M</sup>	8.6-9.4	0.15	1.6-2.0	0.10	0.45-0.6	...	...	0.10	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
354.2 <sup>M</sup>	8.6-9.4	0.06	1.6-2.0	0.10	0.45-0.6	...	...	0.10	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
333.1 <sup>M</sup>	333	...	Ingot	8.0-10.0	0.8	3.0-4.0	0.50	0.10-0.50	...	0.50	1.0	0.25	...	...	...	0.50			
355.1 <sup>M</sup>	4.5-5.5	0.50 <sup>I</sup>	1.0-1.5	0.50 <sup>I</sup>	0.45-0.6	0.25	...	0.35	0.25	...	...	...	...	...	...	...	0.05	0.15	Rem.
A333.1 <sup>M</sup>	...	08/28/70	Ingot	8.0-10.0	0.8	3.0-4.0	0.50	0.10-0.50	...	0.50	3.0	0.25	...	...	...	0.50			
355.2 <sup>M</sup>	4.5-5.5	0.14-0.25	1.0-1.5	0.05	0.50-0.6	...	...	0.05	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
336.1 <sup>M</sup>	A332.1, A132	...	Ingot	11.0-13.0	0.9	0.50-1.5	0.35	0.8-1.3	...	2.0-3.0	0.35	0.25	...	0.05	...				
DESIG. <sup>S</sup>																			
336.2 <sup>M</sup>	A332.2, A132	...	Ingot	11.0-13.0	0.9	0.50-1.5	0.10	0.9-1.3	...	2.0-3.0	0.10	0.20	...	0.05	0.15				
AA No.	Each	Total <sup>F</sup>																	
339.1 <sup>M</sup>	Z332.1, Z132	...	Ingot	11.0-13.0	0.9	1.5-3.0	0.50	0.6-1.5	...	0.50-1.5	1.0	0.25	...	...	...	0.50			
A355.2 <sup>M</sup>	4.5-5.5	0.06	1.0-1.5	0.03	0.50-0.6	...	...	0.03	0.04-0.20	...	...	...	...	...	...	...	0.03	0.10	Rem.

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TABLE 1—Continued

AA No.	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Others <sup>D</sup>		Alu- mi- num Mini- mum	Registered Date	Products <sup>C</sup>			
												Each	Total <sup>E</sup>						
354.1 <sup>M</sup>	354	...	Ingot	8.6-9.4	0.15	1.6-2.0	0.10	0.45-0.6	...	...	0.10	0.20	...	0.05	0.15	Re- main- der			
C355.1 <sup>M</sup>	4.5-5.5	0.15	1.0-1.5	0.10	0.45-0.6	...	...	0.10	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
354.2 <sup>M</sup>	07/21/97	...	Ingot	8.6-9.4	0.06	1.6-2.0	0.10	0.45-0.6	...	...	0.10	0.20	...	0.05	0.15	Re- main- der			
355.1 <sup>M</sup>	355	...	Ingot	4.5-5.5	0.50 <sup>D</sup>	1.0-1.5	0.50 <sup>D</sup>	0.45-0.6	0.25	...	0.35	0.25	...	0.05	0.15	Re- main- der			
355.2 <sup>M</sup>	355	...	Ingot	4.5-5.5	0.14-0.25	1.0-1.5	0.05	0.50-0.6	...	...	0.05	0.20	...	0.05	0.15	Re- main- der			
C355.2 <sup>M</sup>	4.5-5.5	0.13	1.0-1.5	0.05	0.50-0.6	...	...	0.05	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
A355.2 <sup>M</sup>	...	09/17/81	Ingot	4.5-5.5	0.06	1.0-1.5	0.03	0.50-0.6	...	...	0.03	0.04- 0.20	...	0.03	0.10	Re- main- der			
C355.1 <sup>M</sup>	...	06/04/74	Ingot	4.5-5.5	0.15	1.0-1.5	0.10	0.45-0.6	...	...	0.10	0.20	...	0.05	0.15	Re- main- der			
356.1 <sup>M</sup>	6.5-7.5	0.50 <sup>I</sup>	0.25	0.35 <sup>I</sup>	0.25-0.45	...	...	0.35	0.25	...	...	...	...	...	...	...	0.05	0.15	Rem.
C355.2 <sup>M</sup>	C355	...	Ingot	4.5-5.5	0.13	1.0-1.5	0.05	0.50-0.6	...	...	0.05	0.20	...	0.05	0.15	Re- main- der			
356.2 <sup>M</sup>	6.5-7.5	0.13-0.25	0.10	0.05	0.30-0.45	...	...	0.05	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
356.1 <sup>M</sup>	356	...	Ingot	6.5-7.5	0.50 <sup>D</sup>	0.25	0.35 <sup>D</sup>	0.25-0.45	...	...	0.35	0.25	...	0.05	0.15	Re- main- der			
356.2 <sup>M</sup>	356	...	Ingot	6.5-7.5	0.13-0.25	0.10	0.05	0.30-0.45	...	...	0.05	0.20	...	0.05	0.15	Re- main- der			
A356.1 <sup>M</sup>	...	06/04/74	Ingot	6.5-7.5	0.15	0.20	0.10	0.30-0.45	...	...	0.10	0.20	...	0.05	0.15	Re- main- der			
A356.1 <sup>M</sup>	6.5-7.5	0.15	0.20	0.10	0.30-0.45	...	...	0.10	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
A356.2 <sup>M</sup>	A356	...	Ingot	6.5-7.5	0.12	0.10	0.05	0.30-0.45	...	...	0.05	0.20	...	0.05	0.15	Re- main- der			
A356.2 <sup>M</sup>	6.5-7.5	0.12	0.10	0.05	0.30-0.45	...	...	0.05	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
B356.2 <sup>M</sup>	6.5-7.5	0.06	0.03	0.03	0.30-0.45	...	...	0.03	0.04-0.20	...	...	...	...	...	...	...	0.03	0.10	Rem.
C356.2 <sup>M</sup>	6.5-7.5	0.04	0.03	0.03	0.30-0.45	...	...	0.03	0.04-0.20	...	...	...	...	...	...	...	0.03	0.10	Rem.
F356.2 <sup>M</sup>	6.5-7.5	0.12	0.10	0.05	0.17-0.25	...	...	0.05	0.04-0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
357.1 <sup>M</sup>	6.5-7.5	0.12	0.05	0.03	0.45-0.6	...	...	0.05	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
A357.2 <sup>M</sup>	6.5-7.5	0.12	0.10	0.05	0.45-0.7	...	...	0.05	0.04-0.20	...	0.04-0.07	...	...	...	...	...	0.03	0.10	Rem.
B356.2 <sup>M</sup>	...	09/17/81	Ingot	6.5-7.5	0.06	0.03	0.03	0.30-0.45	...	...	0.03	0.04- 0.20	...	0.03	0.10	Re- main- der			

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TABLE 1—Continued

AA No.	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Composition, %		Others <sup>D</sup>	Alu- mi- num Mini- mum	Registered Date	Products <sup>C</sup>	
												Each	Total <sup>E</sup>					
B357.2 <sup>M</sup>	6.5–7.5	0.06	0.03	0.03	0.45–0.6	...	...	0.03	0.04–0.20	...	...	...	...	...	...	0.03	0.10	Rem.
C356.2 <sup>M</sup>	...	05/30/85	Ingot	6.5–7.5	0.04	0.03	0.03	0.30–0.45	...	...	0.03	0.04–0.20	...	0.03	0.10	Re- main- der		
F356.2 <sup>M</sup>	...	10/20/74	Ingot	6.5–7.5	0.12	0.10	0.05	0.17–0.25	...	...	0.05	0.04–0.20	...	0.05	0.15	Re- main- der		
357.1 <sup>M</sup>	357	...	Ingot	6.5–7.5	0.12	0.05	0.03	0.45–0.6	...	...	0.05	0.20	...	0.05	0.15	Re- main- der		
A357.2 <sup>M</sup>	A357	...	Ingot	6.5–7.5	0.12	0.10	0.05	0.45–0.7	...	...	0.05	0.04–0.20	...	0.03 <sup>P</sup>	0.10	Re- main- der		
B357.2 <sup>M</sup>	...	09/17/84	Ingot	6.5–7.5	0.06	0.03	0.03	0.45–0.6	...	...	0.03	0.04–0.20	...	0.03	0.10	Re- main- der		
C357.2 <sup>M</sup>	6.5–7.5	0.06	0.03	0.03	0.50–0.7	...	...	0.03	0.04–0.20	...	0.40–0.07	...	...	...	...	0.03	0.10	Rem.
E357.1 <sup>M</sup>	6.5–7.5	0.07	...	0.10	0.6–0.7	...	...	...	0.10–0.20	...	0.002	...	...	...	...	0.05	0.15	Rem.
C357.2 <sup>M</sup>	...	09/17/84	Ingot	6.5–7.5	0.06	0.03	0.03	0.50–0.7	...	...	0.03	0.04–0.20	...	0.03 <sup>P</sup>	0.10	Re- main- der		
E357.2 <sup>M</sup>	6.5–7.5	0.07	...	0.10	0.6–0.7	...	...	...	0.10–0.20	...	0.0003	...	...	...	...	0.05	0.15	Rem.
E357.1 <sup>M</sup>	...	06/06/01	Ingot	6.5–7.5	0.07	...	0.10	0.6–0.7	...	...	...	0.10–0.20	...	0.05 <sup>Q</sup>	0.15	Re- main- der		
E357.2 <sup>M</sup>	...	06/06/01	Ingot	6.5–7.5	0.07	...	0.10	0.6–0.7	...	...	...	0.10–0.20	...	0.05 <sup>R</sup>	0.15	Re- main- der		
F357.1 <sup>M</sup>	6.5–7.5	0.07	0.20	0.10	0.45–0.7	...	...	0.10	0.04–0.20	...	0.002	...	...	...	...	0.05	0.15	Rem.
F357.1 <sup>M</sup>	...	06/06/01	Ingot	6.5–7.5	0.07	0.20	0.10	0.45–0.7	...	...	0.10	0.04–0.20	...	0.05 <sup>Q</sup>	0.15	Re- main- der		
F357.2 <sup>M</sup>	6.5–7.5	0.07	0.20	0.10	0.45–0.7	...	...	0.10	0.04–0.20	...	0.0003	...	...	...	...	0.05	0.15	Rem.
F357.2 <sup>M</sup>	...	06/06/01	Ingot	6.5–7.5	0.07	0.20	0.10	0.45–0.7	...	...	0.10	0.04–0.20	...	0.05 <sup>R</sup>	0.15	Re- main- der		
358.2 <sup>M</sup>	7.6–8.6	0.20	0.10	0.10	0.45–0.6	0.05	...	0.10	0.12–0.20	...	0.15–0.30	...	...	...	...	0.05	0.15	Rem.
358.2 <sup>M</sup>	B358.2; Fens-50	...	Ingot	7.6–8.6	0.20	0.10	0.10	0.45–0.6	0.05	...	0.10	0.12–0.20	...	0.05 <sup>S</sup>	0.15	Re- main- der		
359.2 <sup>M</sup>	359	...	Ingot	8.5–9.5	0.12	0.10	0.10	0.55–0.7	...	...	0.10	0.20	...	0.05	0.15	Re- main- der		

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TABLE 1—Continued

AA No.	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Designation		Composition, %		Others <sup>D</sup>	Alu- mi- num Mini- mum	Registered Date	Products <sup>C</sup>
												Each	Total <sup>E</sup>	Compound	Remainder				
359.2 <sup>M</sup>	8.5–9.5	0.12	0.10	0.10	0.55–0.7	...	...	0.10	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
A359.1 <sup>M</sup>	...	08/02/04	Ingot <sup>N</sup>	8.5–9.5	0.20	0.20	0.10	0.45–0.6	...	...	0.05	0.20	...	0.03	0.10	...	Re- main- der	...	...
A359.1 <sup>L,M</sup>	8.5–9.5	0.20	0.20	0.10	0.45–0.6	...	...	0.05	0.20	...	...	...	...	...	...	...	0.03	0.10	Rem.
360.2 <sup>M</sup>	360	...	Ingot	9.0–10.0	0.7–1.1	0.10	0.10	0.45–0.6	...	0.10	0.10	...	0.10	...	0.20	...	Re- main- der	...	...
360.2 <sup>M</sup>	9.0–10.0	0.7–1.1	0.10	0.10	0.45–0.6	...	0.10	0.10	...	...	...	...	0.10	...	...	...	...	0.20	Rem.
A360.1 <sup>T,M</sup>	A360	...	Ingot	9.0–10.0	1.0	0.6	0.35	0.45–0.6	...	0.50	0.40	...	0.15	...	0.25	...	Re- main- der	...	...
A360.1 <sup>J,M</sup>	9.0–10.0	1.0	0.6	0.35	0.45–0.6	...	0.50	0.40	...	...	...	...	0.15	...	...	...	...	0.25	Rem.
A360.2 <sup>M</sup>	A360	...	Ingot	9.0–10.0	0.6	0.10	0.05	0.45–0.6	...	...	0.05	...	...	0.05	0.15	...	Re- main- der	...	...
A360.2 <sup>M</sup>	9.0–10.0	0.6	0.10	0.05	0.45–0.6	...	...	0.05	...	...	...	...	...	...	...	...	0.05	0.15	Rem.
361.1 <sup>M</sup>	...	06/30/78	Ingot	9.5–10.5	0.8	0.50	0.25	0.45–0.6	0.20–0.30	0.20–0.30	0.40	0.20	0.20	0.10	0.05	0.15	...	Re- main- der	...
361.1 <sup>M</sup>	9.5–10.5	0.8	0.50	0.25	0.45–0.6	0.20–0.30	0.20–0.30	0.40	0.20	...	...	...	0.10	...	...	...	0.05	0.15	Rem.
362.1 <sup>N</sup>	10.5–11.5	0.30	0.20	0.25–0.35	0.6–0.7	...	0.10	0.10	0.20	...	...	...	0.10	...	...	...	0.05	0.15	Rem.
363.1 <sup>M</sup>	363	04/16/70	Ingot	4.5–6.0	0.8	2.5–3.5	...	0.20–0.40	...	0.25	3.0–4.5	0.20	0.25	...	0.30	...	Re- main- der	...	...
363.1 <sup>M</sup>	4.5–6.0	0.8	2.5–3.5	...	0.20–0.40	...	0.25	3.0–4.5	0.20	...	...	...	0.25	0.25	...	0.8 Mn+Cr	...	0.30	Rem.
364.2 <sup>M</sup>	7.5–9.5	0.7–1.1	0.20	0.10	0.25–0.40	0.25–0.50	0.15	0.15	...	...	0.02–0.04	...	0.15	...	...	...	0.05	0.15	Rem.
364.2 <sup>M</sup>	364	...	Ingot	7.5–9.5	0.7–1.1	0.20	0.10	0.25–0.40	0.25–0.50	0.15	0.15	...	0.15	0.05 <sup>W</sup>	0.15	...	Re- main- der	...	...
365.1 <sup>N</sup>	9.5–11.5	0.12	0.03	0.50–0.8	0.15–0.50	...	...	0.07	0.04–0.15	...	...	...	...	...	...	...	0.03	0.10	Rem.
365.1 <sup>M</sup>	Silafont-36	04/05/96	Ingot	9.5–11.5	0.12	0.03	0.50–0.8	0.15–0.50	...	...	0.07	0.04–0.15	...	0.03 <sup>X</sup>	0.10	...	Re- main- der	...	...
A365.1 <sup>M</sup>	Aural-2	10/17/08	Ingot	9.5–11.5	0.15–0.20	0.02	0.30–0.6	0.15–0.6	...	...	0.03	0.10	...	0.05 <sup>Y</sup>	0.15	...	Re- main- der	...	...
A365.1 <sup>N</sup>	9.5–11.5	0.15–0.20	0.02	0.30–0.6	0.15–0.6	...	...	0.03	0.10	...	...	...	...	...	...	...	0.05	0.15	Rem.
366.1 <sup>M</sup>	...	03/27/03	Ingot <sup>Z</sup>	6.5–7.5	0.12	0.05	0.03	0.6–1.2	...	...	0.05	0.20	...	0.05	0.15	...	Re- main- der	...	...
366.1 <sup>M,O</sup>	6.5–7.5	0.12	0.05	0.03	0.6–1.2	...	...	0.05	0.20	...	...	...	...	...	...	...	0.05	0.15	Rem.
367.1 <sup>M</sup>	Mercalloy367	10/01/07	Ingot	8.5–9.5	0.20	0.25	0.25–0.35	0.35–0.50	...	...	0.10	0.20	...	0.05 <sup>AA</sup>	0.15	...	Re- main- der	...	...



TABLE 1—Continued

AA-№.	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Others <sup>D</sup>		Alu- mi- num Mini- mum	Registered Date	Products <sup>C</sup>		
												Each	Total <sup>E</sup>					
367.1 <sup>N</sup>	8.5–9.5	0.20	0.25	0.25–0.35	0.35–0.50	...	...	0.10	0.20	...	...	...	...	...	0.05	0.15	Rem.	
368.1 <sup>M</sup>	Mercalloy366	10/01/07	Ingot	8.5–9.5	0.20	0.25	0.25–0.35	0.15–0.30	...	...	0.10	0.20	...	0.05	0.15	Remain- der		
368.1 <sup>N</sup>	8.5–9.5	0.20	0.25	0.25–0.35	0.15–0.30	...	...	0.10	0.20	...	...	...	...	...	0.05	0.15	Rem.	
369.1 <sup>M</sup>	Special-K-9	04/04/78	Ingot	11.0–12.0	1.0	0.50	0.35	0.30–0.45	0.30–0.40	0.05	0.9	...	0.10	0.05	0.15	Remain- der		
369.1 <sup>M</sup>	11.0–12.0	1.0	0.50	0.35	0.30–0.45	0.30–0.40	0.05	0.9	...	...	...	...	0.10	...	0.05	0.15	Rem.	
380.2 <sup>M</sup>	7.5–9.5	0.7–1.1	3.0–4.0	0.10	0.10	...	0.10	0.10	...	...	...	...	0.10	...	...	0.20	Rem.	
A380.1 <sup>J,M</sup>	7.5–9.5	1.0	3.0–4.0	0.50	0.10	...	0.50	2.9	...	...	...	...	0.35	...	...	0.50	Rem.	
380.2 <sup>M</sup>	380	...	Ingot	7.5–9.5	0.7–1.1	3.0–4.0	0.10	0.10	...	0.10	0.10	...	0.10	...	0.20	Remain- der		
A380.2 <sup>M</sup>	7.5–9.5	0.6	3.0–4.0	0.10	0.10	...	0.10	0.10	...	...	...	...	...	...	0.05	0.15	Rem.	
B380.1 <sup>M</sup>	7.5–9.5	1.0	3.0–4.0	0.50	0.10	...	0.50	0.9	...	...	...	...	0.35	...	...	0.50	Rem.	
A380.1 <sup>T,M</sup>	A380	...	Ingot	7.5–9.5	1.0	3.0–4.0	0.50	0.10	...	0.50	2.9	...	0.35	...	0.50	Remain- der		
C380.1 <sup>M</sup>	7.5–9.5	1.0	3.0–4.0	0.50	0.15–0.30	...	0.50	2.9	...	...	...	...	0.35	...	...	0.50	Rem.	
A380.2 <sup>M</sup>	A380	...	Ingot	7.5–9.5	0.6	3.0–4.0	0.10	0.10	...	0.10	0.10	...	...	0.05	0.15	Remain- der		
B380.1 <sup>M</sup>	A380	...	Ingot	7.5–9.5	1.0	3.0–4.0	0.50	0.10	...	0.50	0.9	...	0.35	...	0.50	Remain- der		
D380.1 <sup>M</sup>	7.5–9.5	1.0	3.0–4.0	0.50	0.15–0.30	...	0.50	0.9	...	...	...	...	0.35	...	...	0.50	Rem.	
C380.1 <sup>M</sup>	...	01/29/94	Ingot	7.5–9.5	1.0	3.0–4.0	0.50	0.15–0.30	...	0.50	2.9	...	0.35	...	0.50	Remain- der		
E380.1 <sup>M</sup>	7.5–9.5	1.0	3.0–4.0	0.50	0.30	...	0.50	2.9	...	...	...	...	0.35	...	...	0.50	Rem.	
D380.1 <sup>M</sup>	...	01/29/94	Ingot	7.5–9.5	1.0	3.0–4.0	0.50	0.15–0.30	...	0.50	0.90	...	0.35	...	0.50	Remain- der		
E380.1 <sup>M</sup>	...	10/12/06	Ingot	7.5–9.5	1.0	3.0–4.0	0.50	0.30	...	0.50	2.9	...	0.35	...	0.50	Remain- der		
381.2 <sup>M</sup>	...	06/12/97	Ingot	9.0–10.0	0.7–1.0	3.0–4.0	0.50	0.13	0.15	0.50	2.9	0.20	0.15	...	0.50	Remain- der		
381.2 <sup>M</sup>	9.0–10.0	0.7–1.0	3.0–4.0	0.50	0.13	0.15	0.50	2.9	0.20	...	...	0.15	0.15	...	0.15 Sb	...	0.50	Rem.
383.1 <sup>M</sup>	9.5–11.5	1.0	2.0–3.0	0.50	0.10	...	0.30	2.9	...	...	...	...	0.15	...	...	0.50	Rem.	
383.2 <sup>M</sup>	9.5–11.5	0.6–1.0	2.0–3.0	0.10	0.10	...	0.10	0.10	...	...	...	...	0.10	...	...	0.20	Rem.	

TABLE 1—Continued

AA No.	Former	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Composition, %		Others <sup>D</sup>	Alu- mi- num Mini- mum	Registered Date	Products <sup>C</sup>		
												Each	Total <sup>E</sup>						
383.1 <sup>M</sup>	...	...	Ingot	9.5-11.5	1.0	2.0-3.0	0.50	0.10	...	0.30	2.9	...	0.15	...	0.50	Re- main- der			
A383.1 <sup>M</sup>	9.5-11.5	1.0	2.0-3.0	0.50	0.15-0.30	...	0.30	2.9	...	...	...	...	0.15	...	...	...	0.50	Rem.	
B383.1 <sup>M</sup>	9.5-11.5	1.0	2.0-3.0	0.50	0.30	...	0.30	2.9	...	...	...	...	0.15	...	...	...	0.50	Rem.	
384.1 <sup>M</sup>	10.5-12.0	1.0	3.0-4.5	0.50	0.10	...	0.50	2.9	...	...	...	...	0.35	...	...	...	0.50	Rem.	
383.2 <sup>M</sup>	...	...	Ingot	9.5-11.5	0.6-1.0	2.0-3.0	0.10	0.10	...	0.10	0.10	...	0.10	...	0.20	Re- main- der			
384.2 <sup>M</sup>	10.5-12.0	0.6-1.0	3.0-4.5	0.10	0.10	...	0.10	0.10	...	...	...	...	0.10	...	...	...	0.20	Rem.	
A384.1 <sup>M</sup>	10.5-12.0	1.0	3.0-4.5	0.50	0.10	...	0.50	0.9	...	...	...	...	0.35	...	...	...	0.50	Rem.	
A383.1 <sup>M</sup>	...	01/29/91	Ingot	9.5-11.5	1.0	2.0-3.0	0.50	0.15-0.30	...	0.30	2.9	...	0.15	...	0.50	Re- main- der			
B384.1 <sup>M</sup>	10.5-12.0	1.0	3.0-4.5	0.50	0.15-0.30	...	0.50	0.9	...	...	...	...	0.35	...	...	...	0.50	Rem.	
C384.1 <sup>M</sup>	10.5-12.0	1.0	3.0-4.5	0.50	0.15-0.30	...	0.50	2.9	...	...	...	...	0.35	...	...	...	0.50	Rem.	
390.2 <sup>M</sup>	16.0-18.0	0.6-1.0	4.0-5.0	0.10	0.50-0.65 <sup>H</sup>	...	...	0.10	...	0.20	...	...	...	...	...	...	0.10	0.20	Rem.
B383.1 <sup>M</sup>	...	10/12/06	Ingot	9.5-11.5	1.0	2.0-3.0	0.50	0.30	...	0.30	2.9	...	0.15	...	0.50	main- der			
A390.1 <sup>M</sup>	16.0-18.0	0.40	4.0-5.0	0.10	0.50-0.65 <sup>H</sup>	...	...	0.10	0.20	...	...	...	...	...	...	...	0.10	0.20	Rem.
384.1 <sup>M</sup>	384	...	Ingot	10.5-12.0	1.0	3.0-4.5	0.50	0.10	...	0.50	2.9	...	0.35	...	0.50	Re- main- der			
384.2 <sup>M</sup>	384	...	Ingot	10.5-12.0	0.6-1.0	3.0-4.5	0.10	0.10	...	0.10	0.10	...	0.10	...	0.20	main- der			
B390.1 <sup>M</sup>	16.0-18.0	1.0	4.0-5.0	0.50	0.50-0.65 <sup>H</sup>	...	...	1.4	0.20	...	...	...	...	...	...	...	0.10	0.20	Rem.
A384.1 <sup>M</sup>	384	...	Ingot	10.5-12.0	1.0	3.0-4.5	0.50	0.10	...	0.50	0.9	...	0.35	...	0.50	Re- main- der			
391.1 <sup>M</sup>	18.0-20.0	0.9	0.20	0.30	0.45-0.7	...	...	0.10	0.20	...	...	...	...	...	...	...	0.10	0.20	Rem.
B384.1 <sup>M</sup>	...	01/29/91	Ingot	10.5-12.0	1.0	3.0-4.5	0.50	0.15-0.30	...	0.50	0.9	...	0.35	...	0.50	Re- main- der			
G384.1 <sup>M</sup>	...	01/29/91	Ingot	10.5-12.0	1.0	3.0-4.5	0.50	0.15-0.30	...	0.50	2.9	...	0.35	...	0.50	Re- main- der			
390.2 <sup>M</sup>	390	...	Ingot	16.0-18.0	0.6-1.0	4.0-5.0	0.10	0.50- 0.65 <sup>AC</sup>	...	...	0.10	0.20	...	0.10	0.20	Re- main- der			
A391.1 <sup>M</sup>	18.0-20.0	0.50	0.20	0.30 <sup>G</sup>	0.45-0.7	...	...	0.10	0.20	...	...	...	...	...	...	...	0.10	0.20	Rem.
A390.1 <sup>M</sup>	A390	...	Ingot	16.0-18.0	0.40	4.0-5.0	0.10	0.50- 0.65 <sup>AC</sup>	...	...	0.10	0.20	...	0.10	0.20	Re- main- der			

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