

Mineral Industry Surveys

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ALUMINUM IN AUGUST 2024

Domestic primary aluminum production in August 2024 was 56,000 metric tons (t). The average daily production in August 2024 was 1,820 t, compared with 1,830 t in July 2024, 9% less than that in August 2023, and 8% less than that in August 2022 (fig. 1, table 1).

Total aluminum recovered from scrap in August 2024 was 297,000 t, slightly more than that in July 2024 and August 2023, and 3% more than that in August 2022. Of this, 166,000 t of aluminum was recovered from new scrap, and 132,000 t was recovered from old scrap (due to rounding, does not equal total) (fig. 1, table 1).

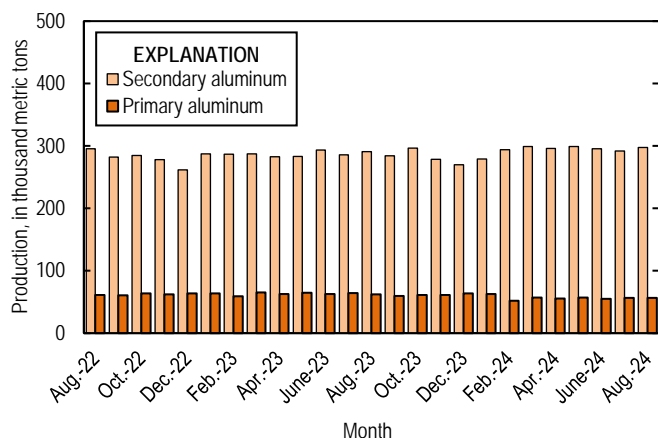


Figure 1. Monthly domestic primary and secondary aluminum production from August 2022 through August 2024.

Prices and Stocks

The August 2024 average U.S. spot market price of primary aluminum ingot was \$1.26 per pound, unchanged from that in July 2024, 6% more than that in August 2023, and 8% less than that in August 2022. The average cash price in August 2024 of primary aluminum ingot on the London Metal Exchange (LME) was \$1.06 per pound, compared with \$1.07 in July 2024, 9% more than that in August 2023, and 4% less than that in August 2022 (fig. 2, table 6).

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States were 9,865 t at the end of August 2024, 5% less than that

at the end of July 2024. Inventories of aluminum alloy (North American Special Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States were 231 t at the end of August 2024, unchanged from that at the end of July 2024 (London Metal Exchange Ltd., 2024a, b).

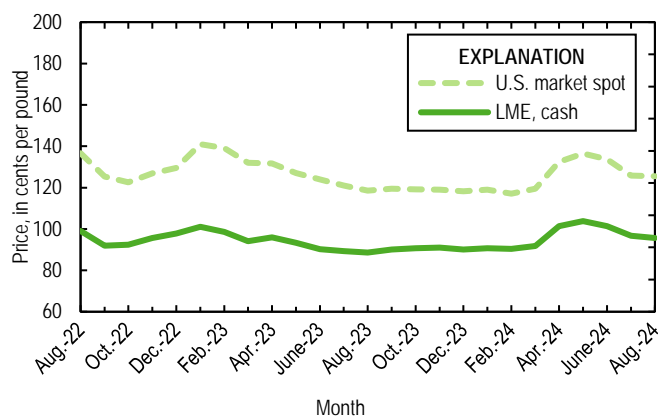


Figure 2. Average monthly prices for primary aluminum from August 2022 through August 2024. Source: S&P Global Platts Metals Week.

Update

United States.—On September 30, Emirates Global Aluminium PJSC (United Arab Emirates) announced the acquisition of Spectro Alloys Corp., a U.S.-based secondary aluminum producer. Emirates Global Aluminium acquired an 80% stake in the company, with the remaining stake held by the previous owner-managers. Based in Rosemont, MN, Spectro Alloys has a production capacity of nearly 110,000 metric tons per year of aluminum alloy ingots (Emirates Global Aluminium PJSC, 2024; Spectro Alloys Corp., 2024).

References Cited

Emirates Global Aluminium PJSC, 2024, EGA completes acquisition of majority stake in US recycling firm Spectro Alloys: Dubai, United Arab Emirates, Emirates Global Aluminium PJSC press release, September 30. (Accessed October 30, 2024, at <https://media.ega.ae/ega-completes-acquisition-of-majority-stake-in-us-recycling-firm-spectro-alloys/>.)

London Metal Exchange Ltd., 2024a, Off-warrant stock reporting: London, United Kingdom, London Metal Exchange Ltd. (Accessed October 24, 2024, via <https://www.lme.com/en/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Off-warrant-stock-reporting>.)

London Metal Exchange Ltd., 2024b, Stocks breakdown report: London, United Kingdom, London Metal Exchange Ltd. (Accessed October 24, 2024, via <https://www.lme.com/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Stock-breakdown-report>.)

Spectro Alloys Corp., 2024, Spectro Alloys acquired by Emirates Global Aluminium: Rosemont, MN, Spectro Alloys Corp. press release, September 12. (Accessed October 30, 2024, at <https://www.spectroalloys.com/news/2024/8/21/rosemount-aluminum-recycling-plant-to-be-acquired-by-emirates-global-aluminium>.)

A worksheet has been added to the Excel table files that includes a button to remove text and numerical footnotes from data cells. This will allow users to only have numbers in data cells. Please see the worksheet titled “RemoveTextButton” for instructions on how to use the tool. Note: you must download the excel file to use the tool.

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Table 1. Components of aluminum supply.

[Data are rounded to no more than three significant digits, except “Primary production”; may not add to totals shown. Data are in thousand metric tons. Revised data are marked with a superscript “r”. NA, not available.]

Period	Primary production	Secondary recovery ¹			Imports for consumption			Total new supply ²	Stocks, end of period ³
		New	Old	Total	Metals and alloys, crude	Plates, sheets, bars, etc.	Total		
2023									
Total	750	1,860	1,560	3,430	3,810	1,040	4,850	9,020	1,820
August	62	153	138	291	283	94	377	730	1,860
September	60	157	127	284	309	80	389	733	1,890
October	61	166	130	297	313	85	398	756	1,830
November	61	154	125	278	277	81	358	698	1,780
December	64	150	119	270	311	86	397	730	1,820
January–August	504 ^r	1,240 ^r	1,060 ^r	2,300 ^r	2,600	704 ^r	3,310 ^r	6,110 ^r	1,820
2024									
January	63	158	121	279	297	98	395	737	1,780
February	52	162	132	294	344	98	442	788	1,770
March	57	165	134	299	270	96	366	722	1,730
April	55	163	133	296	330	113	443	795	1,720
May	57	167	132	299	270	120	390	746	1,800
June	55	163	133	295	340	106	446	796	1,690
July	57	159	133	292	293	113	406	754	1,690
August	56	166	132	297	268	94	362	716	NA
January–August	452	1,300	1,050	2,350	2,410	838	3,250	6,050	NA

¹Metallic recovery from purchased, tolled, or imported scrap, expanded for full coverage of industry.

²Primary production, secondary recovery, and imports for consumption.

³Inventory levels reflect total for U.S. and Canadian producers; data from the Aluminum Association Inc.

Table 2. Estimated full coverage consumption of and metallic recover from purchased new and old aluminum scrap.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in thousand metric tons. Revised data are marked with a superscript "r".]

Period	Secondary smelters		Independent mill fabricators		Foundries		Other consumers		Total	
	Consumption	Metal recovery	Consumption	Metal recovery	Consumption	Metal recovery	Consumption	Metal recovery	Consumption	Metal recovery
2023										
Total	2,520	1,880	1,590	1,450	101	93	3	3	4,210	3,430
August	212	159	137	124	8	8	(¹)	(¹)	357	291
September	207	156	131	120	8	8	(¹)	(¹)	347	284
October	210	158	143	131	8	8	(¹)	(¹)	362	297
November	210	157	124	113	8	8	(¹)	(¹)	343	278
December	206	154	119	108	8	8	(¹)	(¹)	333	270
January–August	1,680 ^r	1,260 ^r	1,070	974	68	62	2	2	2,830 ^r	2,300 ^r
2024										
January	206	155	127	116	8	8	(¹)	(¹)	342	279
February	209	158	141	128	8	8	(¹)	(¹)	359	294
March	213	159	145	132	8	8	(¹)	(¹)	367	299
April	214	160	141	128	8	8	(¹)	(¹)	364	296
May	209	156	148	135	8	8	(¹)	(¹)	366	299
June	208	156	144	131	8	8	(¹)	(¹)	361	295
July	208	154	142	129	8	8	(¹)	(¹)	359	292
August	207	154	148	136	8	8	(¹)	(¹)	364	297
January–August	1,670	1,250	1,140	1,040	68	62	2	2	2,880	2,350

¹Less than ½ unit.

Table 3. Consumption of and recovery from purchased new and old aluminum scrap in August 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown.]

Aluminum scrap	Consumption (metric tons)		Calculated metallic recovery (metric tons)	
	Tabulated reports	Estimated full coverage	Tabulated reports	Estimated full coverage
Secondary smelters	173,000	207,000	128,000	154,000
Independent mill fabricators	135,000	148,000	123,000	136,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	242	290	242	290
Total	315,000	364,000	258,000	297,000

Table 4. Purchased and toll-treated aluminum-base scrap in August 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons.]

Aluminum-base scrap	August			January–August		
	Stocks, opening ¹	Net receipts ²	Melted or consumed	Stocks, closing	Net receipts ²	Melted or consumed
New scrap						
Extrusions	18,600	51,400	51,400	18,600	367,000	367,000
Can stock clippings	96,400	31,200	31,200	96,400	251,000	251,000
Other wrought sheet/clippings	156,000	36,800	36,900	156,000	321,000	321,000
Castings	20,400	6,140	6,140	20,400	38,800	38,800
Borings and turnings	41,500	11,400	11,400	41,500	91,500	91,500
Dross and skimmings ³	340,000	48,600	48,600	340,000	382,000	382,000
Total new scrap	673,000	186,000	186,000	673,000	1,450,000	1,450,000
Old scrap						
Used castings	24,700	28,000	28,000	24,700	221,000	221,000
Used extrusions	15,600	13,200	13,200	15,600	106,000	106,000
Used cans (shredded, loose, baled)	73,600	50,000	50,000	73,600	396,000	396,000
Other wrought products	36,700	25,900	25,900	36,700	211,000	211,000
Fragmentized shredder (auto shredder)	3,500	12,200	12,200	3,500	99,300	99,300
Total old scrap	154,000	129,000	129,000	154,000	1,030,000	1,030,000
Grand total, all classes	827,000	315,000	315,000	827,000	2,480,000	2,480,000

¹May include revisions to previously published data.²Includes data on imported aluminum-base scrap.³Gross volume of dross and skimmings. Recoverable aluminum content ranges from 15% to 50% of gross weight.

Table 5. Aluminum alloys produced at secondary smelters in the United States in August 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown. Excludes integrated aluminum companies. Data are in metric tons. —, not applicable.]

Aluminum alloys	August			January–August		
	Stocks, opening ¹	Production	Net shipments	Stocks, closing	Production	Net shipments
Die-cast alloys						
13% Si, 360, etc. (0.6% Cu, max.)	4,370	2,700	2,700	4,370	21,600	19,200
380 and variations	7,750	17,600	17,600	7,750	141,000	138,000
Sand and permanent mold						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,940	2,130	2,130	1,940	17,000	17,000
No. 319 and variations	1,200	1,390	1,390	1,200	11,100	11,100
F-132 alloy and variations	89	233	233	89	1,870	1,870
Al-Zn alloys	339	71	71	339	567	567
Al-Si alloys (0.6% to 2.0% Cu)	230	195	195	230	1,560	1,560
Al-Cu alloys (1.5% Si, max.)	139	724	724	139	5,800	5,800
Other ²	3,740	4,450	4,450	3,740	35,600	35,600
Other						
Wrought alloys, extrusion billets	14,700	61,900	62,100	14,600	486,000	486,000
Total all alloys	34,500	91,400	91,600	34,400	722,000	717,000
Less						
Primary aluminum consumed	—	15,200	—	—	121,000	—
Primary silicon consumed	—	1,600	—	—	12,800	—
Other alloying ingredients consumed	—	839	—	—	6,710	—
Other						
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot ³	—	73,800	—	—	581,000	—

¹May include revisions to previously published data.

²Includes alloys No. 12, Al-Mg, Al-Zn, Al-Cu, Al-Si-Cu-Ni, aluminum-base hardeners, variations of these alloys, plus other aluminum alloys.

³No allowance made for melt-loss of primary aluminum and alloying ingredients.

Table 6. Average price of aluminum in the United States and on the London Metal Exchange.
[Data are in cents per pound. Source: S&P Global Platts Metals Week.]

Period	Midwest U.S. market price	LME cash price Grade A
2023		
August	118.557	96.787
September	119.429	98.756
October	119.136	99.433
November	119.011	99.877
December	118.250	98.610
January–December	125.863	102.113
2024		
January	118.966	99.514
February	117.083	98.984
March	119.438	100.791
April	132.536	113.285
May	136.524	116.334
June	133.738	113.154
July	125.870	107.137
August	125.571	105.865
January–August	126.216	106.883

Table 7. Average buying prices for aluminum scrap.
[Data are in cents per pound. Source: Fastmarkets–AMM.]

Period	Used beverage cans	Mixed low copper clips	Old sheet	Old cast	Turnings (clean and dry)
2023					
August	67.80	67.40	67.00	69.40	59.60
September	67.75	66.50	67.25	68.50	59.25
October	68.00	66.50	68.75	68.75	59.50
November	69.50	68.00	69.50	69.40	61.60
December	70.38	68.25	68.88	69.75	65.50
January–December	73.84	68.35	69.03	70.37	59.88
2024					
January	74.13	69.13	70.25	72.13	68.63
February	76.00	69.90	71.80	73.80	71.40
March	78.00	71.13	73.00	78.00	72.50
April	87.88	73.00	76.25	79.50	74.63
May	92.60	78.60	82.60	82.00	80.20
June	94.50	79.50	82.25	82.00	82.00
July	92.50	77.25	81.50	83.00	82.50
August	90.90	76.50	77.00	79.50	80.10
January–August	85.81	74.38	76.83	78.74	76.50

Table 8. U.S. imports for consumption of aluminum in August 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons. Source: U.S. Census Bureau.]

Country or locality	Metals and alloys, crude		Plates, sheets, bars ¹		Scrap		Total	
	August	January–August	August	January–August	August	January–August	August	January–August
Argentina	8,270	103,000	0	22	0	0	8,270	103,000
Australia	9,910	56,600	56	169	0	0	9,970	56,800
Austria	(²)	5	2,430	17,100	0	31	2,430	17,200
Bahrain	8,670	65,600	2,200	29,200	0	0	10,900	94,800
Belgium	0	102	1,770	14,600	0	0	1,770	14,700
Brazil	0	5	3,500	26,900	1,020	5,000	4,510	31,900
Canada	203,000	1,840,000	16,300	150,000	35,200	271,000	254,000	2,260,000
Chile	0	0	0	19	136	1,640	136	1,660
China ³	0	504	7,830	114,000	20	234	7,840	115,000
Colombia	0	0	321	3,730	582	4,810	903	8,540
Costa Rica	0	0	83	516	160	902	243	1,420
France	1,700	7,350	1,090	5,890	19	137	2,810	13,400
Germany	17	455	1,790	12,400	835	5,440	2,650	18,300
Greece	0	0	2,730	25,900	2	63	2,730	25,900
Guatemala	0	0	0	18	1,130	8,650	1,130	8,670
Honduras	0	0	813	5,770	241	965	1,050	6,730
India	661	49,500	2,090	20,900	0	(²)	2,750	70,400
Indonesia	311	822	607	9,110	0	0	918	9,930
Italy	200	2,540	1,720	9,880	32	60	1,950	12,500
Japan	1	4	827	11,800	85	287	912	12,100
Korea, Republic of	1,350	5,570	18,000	116,000	0	27	19,300	122,000
Malaysia	0	0	1,180	9,260	0	2	1,180	9,260
Mexico	188	2,880	4,870	36,900	20,700	141,000	25,800	181,000
Netherlands	87	962	65	730	26	93	178	1,780
New Zealand	20	3,490	0	3	0	0	20	3,490
Norway	208	2,380	857	7,090	0	0	1,060	9,470
Oman	0	0	4,560	37,000	0	0	4,560	37,000
Qatar	6,360	32,300	8	17	0	0	6,370	32,300
Romania	0	0	98	270	0	38	98	308
Russia	0	0	0	26	0	0	0	26
Saudi Arabia	0	0	109	6,120	0	0	109	6,120
South Africa	0	121	384	8,060	0	101	384	8,290
Spain	66	1,850	1,450	9,010	0	143	1,520	11,000
Sweden	0	0	1,180	7,480	0	0	1,180	7,480
Switzerland	0	0	62	4,070	0	0	62	4,070
Taiwan	1	182	289	2,400	(²)	55	291	2,640
Thailand	174	1,390	3,290	20,000	0	12	3,460	21,400
Turkey	39	434	1,370	19,900	0	0	1,410	20,400
United Arab Emirates	26,500	236,000	387	1,930	0	0	26,900	238,000
United Kingdom	37	105	1,280	7,930	26	403	1,350	8,430
Vietnam	0	0	1,380	29,100	0	10	1,380	29,200
Other	1	80	6,530	56,000	1,750	14,900	8,290	71,000
Total	268,000	2,410,000	93,500	838,000	61,900	456,000	423,000	3,710,000

¹Includes castings, forgings, and unclassified semifabricated forms.²Less than ½ unit.³Includes Hong Kong.

Table 9. U.S. exports of aluminum in August 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons. Source: U.S. Census Bureau.]

Country or locality	Metals and alloys, crude		Plates, sheets, bars ¹		Scrap		Total	
	August	January–August	August	January–August	August	January–August	August	January–August
Australia	107	426	155	1,330	0	0	261	1,750
Belgium	0	2	230	1,710	770	4,780	1,000	6,490
Brazil	1	2	468	2,110	22	3,090	491	5,200
Canada	5,470	44,700	26,400	222,000	10,800	88,700	42,700	356,000
China ²	192	2,580	966	9,360	16,700	131,000	17,900	143,000
Colombia	0	100	31	324	22	449	53	873
Dominican Republic	(³)	(³)	42	293	668	3,540	710	3,830
France	344	4,230	736	7,900	163	1,620	1,240	13,700
Germany	287	2,520	463	3,560	231	1,260	982	7,340
Guatemala	0	1	4	82	0	0	4	83
India	59	724	474	3,260	35,400	282,000	36,000	286,000
Indonesia	0	36	2	37	3,750	31,500	3,760	31,600
Ireland	(³)	2	8	203	0	806	9	1,010
Israel	(³)	4	648	5,120	0	0	648	5,120
Italy	(³)	143	177	1,550	1,200	5,590	1,370	7,280
Jamaica	0	5	10	71	0	0	10	76
Japan	207	1,280	1,120	9,310	2,730	20,300	4,060	30,900
Korea, Republic of	101	2,170	2,110	17,400	17,500	169,000	19,700	188,000
Malaysia	25,200	238,000	212	2,850	31,200	252,000	56,600	493,000
Mexico	13,600	122,000	27,800	213,000	13,000	93,700	54,400	428,000
Netherlands	165	483	38	332	931	5,270	1,130	6,080
New Zealand	0	9	84	460	0	0	84	470
Norway	0	91	1	13	0	621	1	724
Pakistan	196	1,150	1	8	1,950	12,200	2,150	13,300
Panama	0	6	6	26	0	0	6	32
Philippines	6	164	14	185	195	848	215	1,200
Poland	0	15	93	819	0	20	93	854
Romania	(³)	(³)	82	937	0	0	82	937
Saudi Arabia	2	2	18	169	0	0	20	171
Singapore	313	1,670	107	953	0	115	420	2,740
Spain	1	13	123	1,460	602	5,010	726	6,490
Taiwan	97	272	195	2,680	1,510	27,400	1,800	30,300
Thailand	533	4,960	56	759	26,400	210,000	27,000	215,000
Turkey	(³)	1	286	2,860	74	515	361	3,370
United Arab Emirates	35	66	41	472	60	1,910	136	2,440
United Kingdom	5	66	791	6,050	39	721	835	6,840
Vietnam	0	902	36	780	1,190	12,600	1,230	14,300
Other	70	1,430	424	2,960	926	10,100	1,420	14,500
Total	47,000	430,000	64,400	524,000	168,000	1,380,000	279,000	2,330,000

¹Includes castings, forgings, and unclassified semifabricated forms.²Includes Hong Kong.³Less than ½ unit.