

**Table 1028. Aluminum—Supply, Shipments, and Foreign Trade: 1990 to 2008**

[In millions of pounds (17,334 represents 17,334,000,000)]

Item	1990	1995	2000	2004	2005	2006	2007	2008, prel.
<b>SUPPLY</b>								
<b>Aluminum supply, total</b> . . . . .	<b>17,334</b>	<b>20,425</b>	<b>23,586</b>	<b>22,292</b>	<b>23,659</b>	<b>24,020</b>	<b>23,787</b>	<b>23,100</b>
Primary production . . . . .	8,925	7,441	8,087	5,549	5,468	5,029	5,643	5,862
Recovery from scrap . . . . .	5,276	7,030	7,606	6,680	6,680	7,842	8,497	7,590
Imports of ingot and mill products . . . . .	3,133	5,956	7,893	10,063	11,510	11,149	9,648	9,648
<b>Aluminum net shipments, total</b> . . . . .	<b>17,188</b>	<b>21,019</b>	<b>24,496</b>	<b>24,924</b>	<b>25,520</b>	<b>25,967</b>	<b>24,656</b>	<b>21,869</b>
<b>PRODUCT <sup>1</sup></b>								
Mill products, total . . . . .	13,013	15,716	17,676	17,122	17,738	17,956	16,455	15,281
Sheet, plate, and foil . . . . .	9,297	11,168	12,116	11,463	11,810	11,794	11,009	10,514
Rod, bar, and wire . . . . .	370	534	690	631	664	718	702	680
Electrical conductor . . . . .	542	566	681	763	794	850	818	700
Extruded shapes and tube . . . . .	2,546	3,102	3,792	3,821	4,018	4,137	3,485	3,030
Powder and paste . . . . .	106	108	142	155	144	140	151	135
Forgings and impacts . . . . .	152	238	255	289	308	317	290	222
Ingot for castings and other <sup>2</sup> . . . . .	4,175	5,303	6,820	7,802	7,782	8,011	8,201	6,588
<b>MARKET <sup>1</sup></b>								
Domestic, total . . . . .	14,637	18,152	21,680	22,901	23,064	23,168	21,457	18,595
Building and construction . . . . .	2,663	2,679	3,204	3,692	3,681	3,627	3,100	2,600
Transportation . . . . .	3,205	5,749	7,947	8,509	8,685	8,670	7,885	6,092
Consumer durables . . . . .	1,122	1,369	1,692	1,585	1,561	1,644	1,474	1,357
Electrical . . . . .	1,309	1,395	1,704	1,580	1,646	1,707	1,679	1,522
Machinery and equipment . . . . .	992	1,257	1,496	1,610	1,636	1,680	1,623	1,403
Containers and packaging . . . . .	4,772	5,088	4,992	5,098	5,115	5,113	4,904	4,908
Other . . . . .	574	615	645	827	740	727	792	713
Exports . . . . .	2,551	2,867	2,816	2,023	2,456	2,799	3,199	3,274
<b>FOREIGN TRADE <sup>3</sup></b>								
Exports . . . . .	3,753	3,846	4,100	4,416	5,629	6,592	6,704	7,621
Imports . . . . .	3,718	6,899	9,358	11,221	12,607	12,322	10,737	10,126

<sup>1</sup> Statistics on shipments and markets for 1990 to 2000 represent total U.S. producer's shipments plus imports by consumers. Beginning 2001 figures include Canada. <sup>2</sup> Net ingot for foundry castings, export and destructive uses. <sup>3</sup> U.S. imports and exports of aluminum ingot, mill products and scrap.

Source: The Aluminum Association, Inc., Washington, DC, *Aluminum Statistical Review*, annual. See also <<http://www.aluminum.org>>.

**Table 1029. Semiconductors, Electronic Components, and Semiconductor Manufacturing Equipment—Value of Shipments: 2004 to 2008**

[In millions of dollars (9,728 represents \$9,728,000,000)]

Product description	Product code	2004	2005	2006	2007	2008
Semiconductor machinery . . . . .	3332950	(NA)	9,728	12,598	13,190	10,064
Transmitting, industrial, and special purpose electron tubes <sup>1</sup> . . . . .	3344111	641	652	690	734	792
Receiving type electron tubes <sup>2</sup> . . . . .	3344114	1,049	621	216	(D)	(D)
Electron tubes and parts . . . . .	3344117	78	72	49	36	31
Bare printed circuit boards . . . . .	3344120	4,709	4,856	4,933	4,443	4,547
Integrated microcircuits <sup>3</sup> . . . . .	3344131	60,097	61,631	54,963	49,781	51,585
Transistors . . . . .	3344134	656	603	679	599	401
Diodes and rectifiers . . . . .	3344137	305	372	467	457	457
Other semiconductor devices <sup>4</sup> . . . . .	334413A	7,247	8,330	10,483	10,176	9,122
Capacitors for electronic circuitry . . . . .	3344140	1,184	1,113	1,064	945	937
Resistors for electronic circuitry . . . . .	3344150	744	653	660	645	720
Electronic coils, transformers, and other inductors . . . . .	3344160	1,116	1,216	1,231	1,393	1,389
Connectors for electronic circuitry . . . . .	3344170	3,416	3,589	3,980	4,189	3,994
Printed circuit assemblies, loaded boards and modules <sup>5</sup> . . . . .	334418B	19,566	20,106	19,591	20,382	19,999
Crystals, filters, piezoelectric, and other related electronic devices <sup>6</sup> . . . . .	3344191	654	779	754	689	648
All other miscellaneous transducers <sup>7</sup> . . . . .	3344194	1,495	1,401	1,323	1,466	1,439
Switches, mechanical types for electronic circuitry . . . . .	3344197	716	794	645	662	732
Microwave components and devices <sup>8</sup> . . . . .	334419A	1,326	1,306	1,470	1,541	1,460
All other miscellaneous electronic components . . . . .	334419E	4,158	4,040	4,346	4,831	4,609

D Figure withheld to avoid disclosure. NA Not available. <sup>1</sup> Except X-ray. <sup>2</sup> Including cathode ray (new and rebuilt). <sup>3</sup> Includes semiconductor networks, microprocessors, and MOS memories. <sup>4</sup> Includes semiconductor parts such as chips, wafers, and heat sinks. <sup>5</sup> Printed circuit boards with inserted electronic components. <sup>6</sup> Except microwave filters. <sup>7</sup> Includes electrical-electronic input/output transducers. <sup>8</sup> Except antennae, tubes, and semiconductors

Source: U.S. Census Bureau, Current Industrial Reports, "Semiconductors, Electronic Components, and Semiconductor Manufacturing Equipment," Series MA334Q, August 2010, <[http://www.census.gov/manufacturing/cir/historical\\_data/ma334q/index.html](http://www.census.gov/manufacturing/cir/historical_data/ma334q/index.html)>.