

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. |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| SUPPLY | | | | | | | | |
| Aluminum supply, total | 17,334 | 20,425 | 23,586 | 22,292 | 23,659 | 24,020 | 23,787 | 23,100 |
| 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 |
| Aluminum net shipments, total | 17,188 | 21,019 | 24,496 | 24,924 | 25,520 | 25,967 | 24,656 | 21,869 |
| PRODUCT ¹ | | | | | | | | |
| 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 ² | 4,175 | 5,303 | 6,820 | 7,802 | 7,782 | 8,011 | 8,201 | 6,588 |
| MARKET ¹ | | | | | | | | |
| 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 |
| FOREIGN TRADE ³ | | | | | | | | |
| 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 |

¹ 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. ² Net ingot for foundry castings, export and destructive uses. ³ 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 ¹ | 3344111 | 641 | 652 | 690 | 734 | 792 |
| Receiving type electron tubes ² | 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 ³ | 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 ⁴ | 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 ⁵ | 334418B | 19,566 | 20,106 | 19,591 | 20,382 | 19,999 |
| Crystals, filters, piezoelectric, and other related electronic devices ⁶ | 3344191 | 654 | 779 | 754 | 689 | 648 |
| All other miscellaneous transducers ⁷ | 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 ⁸ | 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. ¹ Except X-ray. ² Including cathode ray (new and rebuilt). ³ Includes semiconductor networks, microprocessors, and MOS memories. ⁴ Includes semiconductor parts such as chips, wafers, and heat sinks. ⁵ Printed circuit boards with inserted electronic components. ⁶ Except microwave filters. ⁷ Includes electrical-electronic input/output transducers. ⁸ 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>.