

**3C004 Hydrides of phosphorus, arsenic or antimony, having a purity better than 99.999%, even diluted in inert gases or hydrogen.**

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#### List of Items Controlled

*Unit:* \* \* \*

*Related Controls:* N/A

*Related Definition:* \* \* \*

*Items:*

The list of items controlled is contained in the ECCN heading.

**Note:** This entry does not control hydrides containing 20% molar or more of inert gases or hydrogen.

**3E001 “Technology” according to the General Technology Note for the “development” or “production” of equipment or materials controlled by 3A (except 3A292, 3A980, 3A981, 3A991 or 3A992), 3B (except 3B991 and 3B992) or 3C.**

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#### List of Items Controlled

*Unit:* \* \* \*

*Related Controls:* \* \* \*

*Related Definition:* \* \* \*

*Items:*

The list of items controlled is contained in the ECCN heading.

**Note:** 3E001 does not control “technology” for the “development” or “production” of:

- (a) Microwave transistors operating at frequencies below 31 GHz;
- (b) Integrated circuits controlled by 3A001.a.3 to a.12, having all of the following:
  - (b.1) Using “technology” of 0.7 micrometer or more; and
  - (b.2) Not incorporating multi-layer structures.

**Technical Note:** The term multi-layer structures in Note b.2 does not include devices incorporating a maximum of three metal layers and three polysilicon layers.

**3E002 “Technology” according to the General Technology Note other than that controlled in 3E001 for the “development” or “production” of “microprocessor microcircuits”, “micro-computer microcircuits” and microcontroller microcircuits having a “composite theoretical performance” (“CTP”) of 530 million theoretical operations per second (MTOPS) or more and an arithmetic logic unit with an access width of 32 bits or more.**

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#### List of Items Controlled

*Unit:* \* \* \*

*Related Controls:* \* \* \*

*Related Definitions:* \* \* \*

*Items:*

The list of items controlled is contained in the ECCN heading.

**Note:** 3E002 does not control “technology” for the “development” or “production” of:

- (a) Microwave transistors operating at frequencies below 31 GHz;
- (b) Integrated circuits controlled by 3A001.a.3 to a.12, having all of the following:
  - (b.1) Using “technology” of 0.7 micrometer or more; and

(b.2) Not incorporating multi-layer structures.

**Technical Note:** The term multi-layer structures in Note b.2 does not include devices incorporating a maximum of three metal layers and three polysilicon layers.

**3E003 Other “technology” for the “development” or “production” of items described in the List of Items Controlled.**

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#### License Exceptions

*CIV:* \* \* \*

*TSR:* Yes, except .f and .g

#### List of Items Controlled

*Unit:* \* \* \*

**Related Controls:** (1) Technology for the “development” or “production” of “space qualified” electronic vacuum tubes operating at frequencies of 31 GHz or higher, described in 3E003.g, is under the export license authority of the Department of State, Office of Defense Trade Controls (22 CFR part 121); (2) See 3E001 for silicon-on-insulation (SOI) technology for the “development” or “production” related to radiation hardening of integrated circuits.

**Related Definitions:** \* \* \*

*Items:*

- a. Vacuum microelectronic devices;
- b. Hetero-structure semiconductor devices such as high electron mobility transistors (HEMT), hetero-bipolar transistors (HBT), quantum well and super lattice devices;
- c. “Superconductive” electronic devices;
- d. Substrates of films of diamond for electronic components;
- e. Substrates of silicon-on-insulator (SOI) for integrated circuits in which the insulator is silicon dioxide;
- f. Substrates of silicon carbide for electronic components;
- g. Electronic vacuum tubes operating at frequencies of 31 GHz or higher.

11. In Supplement No. 1 to part 774 (the Commerce Control List), Category 4—Computers, the following Export Control Classification Numbers (ECCNs) are amended by:

(a) Revising the License Requirements section, and the *GBS* paragraph in the License Exception section, and the *Items* paragraph in the List of Items Controlled section of ECCN 4A003;

(b) Amending the License Requirements section by removing the *License Requirement Notes* paragraph from the end of this section, and revising the *Items* paragraph in the List of Items Controlled section of ECCN 4D003; and

(c) Revising the *Related Definitions* paragraph and the *Items* paragraph in the List of Items Controlled section of ECCN 4D993.

**4A003 “Digital computers”, “electronic assemblies”, and related equipment therefor, and specially designed components therefor.**

#### License Requirements

**Reason for Control:** NS, MT, CC, AT, NP, XP

Control(s)	Country Chart
NS applies to 4A003.b and .c.	NS Column 1
NS applies to 4A003.a, .e, and .g.	NS Column 2
MT applies to digital computers used as ancillary equipment for test facilities and equipment that are controlled by 9B005 or 9B006..	MT Column 1
CC applies to “digital computers” for computerized finger-print equipment.	CC Column 1
AT applies to entire entry (refer to 4A994 for controls on “digital computers” with a CTP ≥6 but ≤ to 28,000 MTOPS).	AT Column 1

NP applies, unless a License Exception is available. See § 742.3(b) of the EAR for information on applicable licensing review policies.

XP applies to “digital computers” with a CTP greater than 28,000 MTOPS, unless a License Exception is available. XP controls vary according to destination and end-user and end-use; however, XP does not apply to Canada. See § 742.12 of the EAR for additional information.

**Note:** For all destinations, except Cuba, Iran, Iraq, Libya, North Korea, Sudan, Syria, no license is required (NLR) for computers with a CTP not greater than 28,000 MTOPS and for “electronic assemblies” described in 4A003.c that are not capable of exceeding a CTP greater than 28,000 MTOPS in aggregation. Computers controlled in this entry for MT reasons are not eligible for NLR.

#### License Exceptions

*LVS:* \* \* \*

*GBS:* Yes, for 4A003.e, and .g and specially designed components therefor, exported separately or as part of a system.

*CTP:* \* \* \*

*CIV:* \* \* \*

#### List of Items Controlled

*Unit:* \* \* \*

*Related Controls:* \* \* \*

*Related Definitions:* \* \* \*

*Items:*

**Note 1:** 4A003 includes the following:

- a. Vector processors;
- b. Array processors;
- c. Digital signal processors;
- d. Logic processors;
- e. Equipment designed for “image enhancement”;
- f. Equipment designed for “signal processing”.

**Note 2:** The control status of the “digital computers” and related equipment described