

# Group 1 – Dual Use List

**Note:**

Terms in "double quotation marks" are defined terms. Refer to "Definition of the Terms used in Groups 1 and 2" on pages 55 to 62.

## General Technology Note

The export of "technology" which is "required" for the "development", "production" or "use" of products controlled in the Dual-Use List is controlled according to the provisions in each Category. This "technology" remains under control even when applicable to any uncontrolled product.

Controls do not apply to that "technology" which is the minimum necessary for the installation, operation, maintenance (checking) and repair of those products which are not controlled or whose export has been authorised.

**N.B.:**

This does not release the repair "technology" controlled by Category 1085.2.a.

Controls do not apply to "technology" "in the public domain", to "basic scientific research" or to the minimum necessary information for patent applications.

## General "Software" Note

The Dual-Use List does not control "software" which is either:

1. Generally available to the public by being:
  - a. Sold from stock at retail selling points, without restriction, by means of:
    1. Over-the-counter transactions;
    2. Mail order transactions; **or**
    3. Telephone call transactions; **and**
  - b. Designed for installation by the user without further substantial support by the supplier; **or**
2. "In the public domain".

## Category 1010: Advanced Materials

### 1011. Systems, Equipment and Components

1. Components made from fluorinated compounds, as follows:
  - a. Seals, gaskets, sealants or fuel bladders specially designed for "aircraft" or aerospace use made from more than 50% by weight of any of the materials controlled by 1013.9.b. or 1013.9.c.;
  - b. Piezoelectric polymers and copolymers made from vinylidene fluoride materials controlled by 1013.9.a.:
    1. In sheet or film form; **and**
    2. With a thickness exceeding 200 µm;
  - c. Seals, gaskets, valve seats, bladders or diaphragms made from fluoroelastomers containing at least one vinyl ether monomer, specially designed for "aircraft", aerospace or missile use.
2. "Composite" structures or laminates, having any of the following:
  - a. An organic "matrix" and made from materials controlled by 1013.10.c., 1013.10.d. or 1013.10.e.; **or**
  - b. Having a metal or carbon "matrix" and made from:
    1. Carbon "fibrous or filamentary materials" with:
      - a) A specific modulus exceeding  $10.15 \times 10^6$  m; **and**
      - b) A specific tensile strength exceeding  $17.7 \times 10^4$  m; **or**
    2. Materials controlled by 1013.10.c.

**Note 1:**

Item 1011.2. does not control finished or semi-finished items specially designed for purely civilian applications as follows:

1. sporting goods;
2. automotive industry;
3. machine tool industry;
4. medical applications.

**Note 2:**

1011.2. does not control composite structures or laminates made from epoxy resin impregnated carbon "fibrous or filamentary materials" for the repair of aircraft structures or laminates, provided the size does not exceed  $1 \text{ m}^2$ .

**Technical Notes:**

1. Specific modulus: Young's modulus in pascals, equivalent to  $\text{N/m}^2$  divided by specific weight in  $\text{N/m}^3$ , measured at a temperature of  $(296 \pm 2) \text{ K}$  ( $(23 \pm 2)^\circ\text{C}$ ) and a relative humidity of  $(50 \pm 5)\%$ .
  2. Specific tensile strength: ultimate tensile strength in pascals, equivalent to  $\text{N/m}^2$  divided by specific weight in  $\text{N/m}^3$ , measured at a temperature of  $(296 \pm 2) \text{ K}$  ( $(23 \pm 2)^\circ\text{C}$ ) and a relative humidity of  $(50 \pm 5)\%$ .
  3. Manufactures of non-fluorinated polymeric substances controlled by 1013.8.a.3., in film, sheet, tape or ribbon form:
    - a. With a thickness exceeding 0.254 mm; **or**
    - b. Coated or laminated with carbon, graphite, metals or magnetic substances.
- Note:**
- 1011.3. does not control manufactures when coated or laminated with copper and designed for the production of electronic printed circuit boards.
4. Protective and detection equipment and components not specially designed for military use, as follows:
    - a. Gas masks, filter canisters and decontamination equipment therefor designed or modified for defence against biological agents or radioactive materials "adapted for use in war" or chemical warfare (CW) agents and specially designed components therefor;
    - b. Protective suits, gloves and shoes specially designed or modified for defence against biological agents or radioactive materials "adapted for use in war" or chemical warfare (CW) agents;
    - c. Nuclear, biological and chemical detection systems (NBC) specially designed or modified for detection or identification