

botulinum toxins controlled by ECCN 1C351.d.1 and items controlled for CW reasons under 1C351.d.5 or .d.6; and
e. Diagnostic and food testing kits containing items controlled by ECCN 1C351.d, except items controlled for CW reasons under ECCN 1C351.d.5 or .d.6.

10. In Supplement No. 1 to Part 774 (the Commerce Control List), Category 2—Materials Processing, ECCN 2B350 is amended by revising the ECCN heading and the List of Items Controlled to read as follows:

2B350 Chemical manufacturing facilities and equipment, except valves controlled by 2A226 or 2A292, as follows (see List of Items Controlled).

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List of Items Controlled

Unit: Equipment in number.

Related Controls: The controls in this entry do not apply to equipment that is: (a) Specially designed for use in civil applications (e.g., food processing, pulp and paper processing, or water purification); AND (b) inappropriate, by the nature of its design, for use in storing, processing, producing or conducting and controlling the flow of chemical weapons precursors controlled by 1C350.

Related Definitions: For purposes of this entry the term "chemical warfare agents" are those agents subject to the export licensing authority of the U.S. Department of State, Office of Defense Trade Controls. (See 22 CFR part 121)

Items:

- a. Reaction vessels or reactors, with or without agitators, with total internal (geometric) volume greater than 0.1 m³ (100 liters) and less than 20 m³ (20,000 liters), where all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:
 - a.1. Alloys with more than 25% nickel and 20% chromium by weight;
 - a.2. Fluoropolymers;
 - a.3. Glass (including vitrified or enameled coating or glass lining);
 - a.4. Nickel or alloys with more than 40% nickel by weight;
 - a.5. Tantalum or tantalum alloys;
 - a.6. Titanium or titanium alloys; or
 - a.7. Zirconium or zirconium alloys.
- b. Agitators for use in reaction vessels or reactors described in 2B350.a, and impellers, blades or shafts designed for such agitators, where all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:

- b.1. Alloys with more than 25% nickel and 20% chromium by weight;
- b.2. Fluoropolymers;
- b.3. Glass (including vitrified or enameled coatings or glass lining);
- b.4. Nickel or alloys with more than 40% nickel by weight;
- b.5. Tantalum or tantalum alloys;
- b.6. Titanium or titanium alloys; or
- b.7. Zirconium or zirconium alloys.
- c. Storage tanks, containers or receivers with a total internal (geometric) volume greater than 0.1 m³ (100 liters) where all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:
 - c.1. Alloys with more than 25% nickel and 20% chromium by weight;
 - c.2. Fluoropolymers;
 - c.3. Glass (including vitrified or enameled coatings or glass lining);
 - c.4. Nickel or alloys with more than 40% nickel by weight;
 - c.5. Tantalum or tantalum alloys;
 - c.6. Titanium or titanium alloys; or
 - c.7. Zirconium or zirconium alloys.
- d. Heat exchangers or condensers with a heat transfer surface area of less than 20 m², but greater than 0.15 m², and tubes, plates, coils or blocks (cores) designed for such heat exchangers or condensers, where all surfaces that come in direct contact with the chemical(s) being processed are made from any of the following materials:
 - d.1. Alloys with more than 25% nickel and 20% chromium by weight;
 - d.2. Fluoropolymers;
 - d.3. Glass (including vitrified or enameled coatings or glass lining);
 - d.4. Graphite or carbon-graphite;
 - d.5. Nickel or alloys with more than 40% nickel by weight;
 - d.6. Silicon carbide;
 - d.7. Tantalum or tantalum alloys;
 - d.8. Titanium or titanium alloys;
 - d.9. Titanium carbide; or
 - d.10. Zirconium or zirconium alloys.
- e. Distillation or absorption columns of internal diameter greater than 0.1 m, and liquid distributors, vapor distributors or liquid collectors designed for such distillation or absorption columns, where all surfaces that come in direct contact with the chemical(s) being processed are made from any of the following materials:
 - e.1. Alloys with more than 25% nickel and 20% chromium by weight;
 - e.2. Fluoropolymers;
 - e.3. Glass (including vitrified or enameled coatings or glass lining);
 - e.4. Graphite or carbon-graphite;
 - e.5. Nickel or alloys with more than 40% nickel by weight;
 - e.6. Tantalum or tantalum alloys;
 - e.7. Titanium or titanium alloys; or
 - e.8. Zirconium or zirconium alloys.
- f. Remotely operated filling equipment in which all surfaces that come in direct contact with the chemical(s) being processed are made from any of the following materials:
 - f.1. Alloys with more than 25% nickel and 20% chromium by weight; or
 - f.2. Nickel or alloys with more than 40% nickel by weight.
- g. Valves with nominal sizes greater than 1.0 cm (³/₈ in.), and casings (valve bodies) or preformed casing liners designed for such valves, in which all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:
 - g.1. Nickel or alloys with more than 40% nickel by weight;
 - g.2. Alloys with more than 25% nickel and 20% chromium by weight;
 - g.3. Fluoropolymers;
 - g.4. Glass or glass lined (including vitrified or enameled coatings);
 - g.5. Tantalum or tantalum alloys;
 - g.6. Titanium or titanium alloys; or
 - g.7. Zirconium or zirconium alloys.
- h. Multi-walled piping incorporating a leak detection port, in which all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:
 - h.1. Alloys with more than 25% nickel and 20% chromium by weight;
 - h.2. Fluoropolymers;
 - h.3. Glass (including vitrified or enameled coatings or glass lining);
 - h.4. Graphite or carbon-graphite;
 - h.5. Nickel or alloys with more than 40% nickel by weight;
 - h.6. Tantalum or tantalum alloys;
 - h.7. Titanium or titanium alloys; or
 - h.8. Zirconium or zirconium alloys.
- i. Multiple-seal, canned drive, magnetic drive, bellows or diaphragm pumps, with manufacturer's specified maximum flow-rate greater than 0.6 m³/hour, or vacuum pumps with manufacturer's specified maximum flow-rate greater than 5 m³/hour (under standard temperature (273 K (0° C)) and pressure (101.3 kPa) conditions), and casings (pump bodies), preformed casing liners, impellers, rotors or jet pump nozzles designed for such pumps, in which all surfaces that come into direct contact with the chemical(s) being processed are made from any of the of the following materials: