



HRP Training Aid: Semiconductors

DESCRIPTION

ECCN

Computer aided design (CAD) equipment for semiconductor devices or integrated circuits.....	3B991.b.2.c
Computer aided design (CAD) software for IC's and semiconductors	3D003
Electron beam equipment for mask making/semiconductor devices	3B001.f.2
Electron beam systems, for probing semiconductor devices.....	3B992.b.5
Handling systems, semiconductor wafers	3B001.e
III/V and II/VI semiconductor materials purifying or processing equipment	3B991.b.1.b
Integrated circuits, compound semiconductor	3A001.a.11
Ion beam equipment for mask making/semiconductor devices	3B001.f.2
Ion beam system, manufacturing, repairing, physical layout analysis and testing of masks or semiconductor devices	3B992.b.6
Laser beam equipment for mask making/semiconductor devices	3B001.f.2
Laser beam systems, for probing semiconductor devices	3B992.b.5
Lithography equipment, mask making for semiconductor wafer processing.....	3B001.f
Positive resists for semiconductor lithography	3C002.a.1
Resist materials, semiconductor lithography	3C002
Resists (positive), semiconductor lithography	3C992
Semiconductor components, extended temperature range.....	3A001.a.2
Semiconductor device discrete testing equipment.....	3B992.b.4.a
Semiconductor device inspection or testing equipment and systems.....	3B992.b
Semiconductor device or material manufacturing equipment.....	3B001
Semiconductor devices manufacturing equipment and systems	3B991.b
Semiconductor materials purifying or processing equipment.....	3B991.b.1.b
Semiconductor probing systems, electron and laser beam	3B002.d
Silicon carbide wafers or semiconductor substrates, ingots, boules or preforms	3C005.a
Silylated resists for semiconductor lithography	3C002.d
Solid-state power semiconductor switches, diodes, or "modules"	3A001.h
Step and repeat equipment, semiconductor wafer processing	3B001.f.1
Substrates, semiconductor with resist coating	3C002
Test equipment—specially designed for testing finished or unfinished semiconductor devices.....	3B002
Wafer handling systems, semiconductor.....	3B001.e
Wafer processing, semiconductor manufacture	3B001.e
Wafers, semiconductor with function determined	3A001.a



Semiconductors and ITAR 22 CFR Part 121 (U.S. Munitions List)

Look for references to the following:

- "3-5" (or "III-V") semiconductor technology (e.g., a III-V semiconductor photocathode)
- Gallium and nitride (GaN) semiconductor compounds
- Gallium and arsenide (GaAs) semiconductor compounds
- Gen 2 and Gen 3 semiconductor products (e.g., a Gen 3 photocathode for night vision)

Such semiconductors are used in parts and components controlled under **Category XII – Fire Control, Laser, Imaging, and Guidance Equipment** of the U.S. Munitions List (22 CFR Part 121)