| m; | 1015.12011(02001 |
|---|--|
| 1013. 10. b. Carbon "fibrous or filamentary materials" with: 1. A specific modulus exceeding 12.7 x 10⁶ m; and 2. A specific tensile strength exceeding 23.5 x 10⁴ m; | 1015. 1. Technology according to the General Technology Note for the "development" or "production" of equipment or materials embargoed by 1011.1.b., 1011.1.c., 1011.2., 1011.3., 1012. or 1013. |
| Properties for materials described in 1012 10 h, should be de | 1015. 2 Other technology: |
| termined using SACMA recommended methods SRM 12 to 17, | 1015. 2. other technology. 1015. 2. a. Technology for the "development" or "production" of |
| Standard JIS-R-7601, Paragraph 6.6.2., and based on lot aver- | 1015. 2. b. Technology for the "development" or "production" of |
| age. NOTE: | fluoroelastomer compounds containing at least one vinylether monomer; |
| 1013.10.b. does not embargo fabric made from "fibrous or filamentary materials" for the repair of aircraft structures or laminates, in which the size of individual sheets does not exceed | 1015. 2. c. Technology for the design or "production" of the following base materials or non-"composite" ceramic materials: |
| 50 cm x 90 cm. | 1015. 2. c. 1. Base materials having all of the following character- |
| A specific modulus exceeding 2.54 x 10⁶ m; and A melting, decomposition or sublimation point exceeding 1,922 K (1,649°C) in an inert environment; NOTE: | 1015. 2. c. 1. a. Any of the following compositions: 1. Single or complex oxides of zirconium and complex oxides of silicon or aluminium; 2. Single nitrides of boron (cubic crystalline |
| 1013.10.c. does not embargo: | forms); 3 Single or complex carbides of silicon or boron; |
| mina fibres in chopped fibre or random mat form, | or |
| containing 3 weight percent or more silica, with a specific modulus of less than 10 x 10 ⁶ m; 2. Molybdenum and molybdenum alloy fibres; 3. Boron fibres; | 4. Single or complex nitrides of silicon; 1015. 2. c. 1. b. Total metallic impurities, excluding intentional additions, of less than: 1. 1.000 ppm for single oxides or carbides; or |
| 4. Discontinuous ceramic fibres with a melting, decomposition or sublimation point lower than | 2. 5,000 ppm for complex compounds or single nitrides; and |
| 2,043 K (1,770°C) in an inert environment. | 1015. 2. c. 1. c. 1. Average particle size equal to or less than 5 micrometre and no more than 10% of the |
| 1. Composed of any of the following: | particles larger than 10 micrometre; or |
| a. Polyetherimides embargoed by 1013.8.a; or b. Materials embargoed by 1013.8.b., c., d., e. or f.; | For zirconia, these limits are 1 micrometre and |
| or 2. Composed of materials embargoed by 1013.10.d.1.a. | 1015. 2. c. 1. c. 2. a. Platelets with a length to thickness ratio |
| or b.and "commingled" with other fibres embargoed by 1013.10.a., b. or c.; | b. Whiskers with a length to diameter ratio |
| 1013. 10. e. Resin- or pitch-impregnated fibres (prepregs), metal or carbon-coated fibres (preforms) or "carbon fibre pre- forms" as follows: | micrometre; and c. Continuous or chopped fibres less than 10 |
| 1. Made from "fibrous or filamentary materials" | micrometre in diameter; 1015. 2. c. 2. Non-"composite" ceramic materials (except abrasives) |
| Made from organic or carbon "fibrous or filamentary | composed of the materials described in 1015.2.c.1.; 1015. 2. d. Technology for the "production" of aromatic polyamide |
| a. With a specific tensile strength exceeding 17.7 x | fibres; 1015. 2. e. Technology for the installation maintenance or renair of |
| 10° m; b. With a specific modulus exceeding 10.15 x 10^{6} | materials embargoed by 1013.1.; 1015 2 f Technology for the renait of "composite" structures |
| m; c. Not embargoed by 1013.10.a. or b.: and | laminates or materials embargoed by 1011.2., C.7.c. or |
| d. When impregnated with materials embargoed by | C.7.a. NOTE: |
| resins, having a glass transition temperature (Tg) exceeding 383 K (110°C) ; | 1015. 2. f. does not embargo technology for the repair of "civil aircraft" structures using carbon "fibrous or filamen- tary materials" and epoxy resins, contained in aircraft |
| 1012. | manufacturers' manuals. |
| carbon "fibrous or filamentary materials" (prepregs) for the | 1. Governments may permit, as administrative exceptions, the |
| individual sheets of prepreg does not exceed 50 cm x 90 cm. | shipment to the Czech Republic, Poland, and Slovak Republic of everything embargoed by this Category, except: |
| 10. Technical Notes: 1. Specific modulus: Young's modulus in pascals, equivalent | a. "Composite" structures or laminates embargoed by 1011.2.a., when specially designed for stealth or space applications, or |
| to N/m ² divided by specific weight in N/m ³ , measured at a temperature of (296 ± 2) K $((23 \pm 2)^{\circ}$ C) and a relative | by 1011.2.b.; b. Filament winding machines embargoed by 1012.1.a.; |
| humidity of $(50 \pm 5)\%$. 2. Specific tensile strength: ultimate tensile strength in | c. Tape-laying machines embargoed by 1012.1.b.; d. "Fibrous or filamentary materials" embargoed by 1013.10 a |
| pascals, equivalent to N/m ² divided by specific weight in N/m ³ , measured at a temperature of (296 ± 2) K $((23 \pm 10))$ | 1013.10.c., 1013.10.d. or 1013.10.e.; • "Software" secially designed and technology "required" for |
| 2)°C) and a relative humidity of $(50 \pm 5)\%$. (See Technical Note 2 to the Atomic Energy List (Group 3)) | the equipment or materials described in a., b., c. or d. above, |
| 1014. SOFTWARE | 1020 MATERIALS PROCESSING |
| 1014 1 "Software" specially designed on modified for the "durch | 1021 FOUIPMENT ASSEMBLIES AND |
| ment", "production" or "use" of equipment embargoed by 1012.; | COMPONENTS |
| 1014. 2. "Software" for the "development" of organic "matrix", metal "matrix" or carbon "matrix" laminates or "composites". | 1021. Anti-friction bearings or bearing systems, as follows, and components therefor: |

2. A specific tensile strength exceeding 23.5×10^4 | 1015 TECHNOLOCY