

SCHEDULE 1

PROHIBITED GOODS–MISCELLANEOUS CONTENTS

PART II

GROUP 3I

Chemicals, Metalloids and Petroleum Products

IL1710

Fluids and lubricating materials, the following–

(a) Hydraulic fluids which contain any of the following compounds or materials as their principal ingredients:

(1) Highly refined super-dewaxed petroleum (mineral) oils, synthetic hydrocarbon oils or silahydrocarbon oils, having all of the following characteristics–

(A) Flash point exceeding 477K (204°C);

(B) Pour point 239K (–34°C) or lower;

(C) Viscosity index 75 or more; and

(D) Thermal stability 616K (343°C);
(Silahydrocarbon oils are those oils which contain exclusively

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silicon, hydrogen and carbon.) (2)
Chlorofluorocarbons having all of the following characteristics—

(A) No flash point;

(B) Autogenous ignition temperature exceeding 977K (704°C);

(C) Pour point 219K (-54°C) or lower;

(D) Viscosity index 80 or more; and

(E) Boiling point 473K (200°C) or higher;

(chlorofluorocarbons are those chemicals which contain exclusively carbon, fluorine and chlorine); or

(3) Monomeric or polymeric forms of perfluoropolyalkylether-triazines or perfluoroaliphatic ethers

(b) Lubricating materials containing any of the following compounds or materials as their principal ingredients—

(1) Monomeric or polymeric forms of perfluoropolyalkylether-

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triazines or
perfluoroaliphatic
ethers

(2) Phenylene or C
alkylphenylene
ethers or thio-
ethers, or their
mixtures,
containing more
than two ether
or thio-ether
functions or
mixtures thereof

(3)
Polychlorotrifluoroethylene
(oily and waxy
modifications
only)

or

(4) Fluorinated C
silicone fluids
with kinematic
viscosity of less
than $5,000\text{mm}^2$
/s (5,000
centistokes)
measured at
298K (25°C)

(c) Damping or
flotation fluids
made of at least
85% of any of
the following
compounds or
materials–

(1) C
Dibromotetrafluoroethane
having a purity
exceeding 99.8%
and containing
less than 25
particles of 200
micrometre or
larger in size per
100ml

(2)
Polychlorotrifluoroethylene
(oily and waxy

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modifications
only)

or

(3) C
Polybromotrifluoroethylene

(d) Cooling
fluids made of at
least 85% of any
of the following
compounds or
materials–

(1) Monomeric C
or polymeric
forms of
perfluoropolyalkylether-
triazines or
perfluoroaliphatic
ethers

(2) C
Perfluoroalkylamines

or

(3) C
Perfluorocycloalkanes

or
perfluoroalkanes
with all of
the following
characteristics–

(A) Density at
298K (25°C) of
1.5g/ml or more;

(B) In a liquid
state at 273K
(0°C); and

(C) Containing
60% or more
by weight of
fluorine.

In this entry–

(a) Flash point
is determined
using the
Cleveland Open
Cup Method
described in
ASTM D-92

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or national
equivalents;

(b) Pour point
is determined
using the method
described in
ASTM D-97
or national
equivalents;

(c) Viscosity
index is
determined
using the method
described in
ASTM D-2270
or national
equivalents;

(d) Thermal
stability is
determined by
the following
test procedure
or national
equivalents:
Twenty ml of
the fluid under
test is placed
in a 46ml type
317 stainless
steel chamber
containing one
each of 12.5mm
(nominal)
diameter balls of
M-10 tool steel,
52100 steel and
naval bronze
(60% Cu, 39%
Zn, 0.75% Sn).
The chamber
is purged with
nitrogen, sealed
at atmospheric
pressure and
the temperature
raised to and
maintained
at $644 + 6K$
($371 + 6^{\circ}C$) for
six hours. The
specimen will

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be considered thermally stable if, on completion of the above procedure, all of the following conditions are met:

(1) The loss in weight of each ball is less than 10mg/mm² of ball surface;

(2) The change in original viscosity as determined at 311K (38°C) is less than 25%; and

(3) The total acid or base number is less than 0.40;

(e) Autogenous ignition temperature is determined using the method described in ASTM E-659 or national equivalents.

IL1715

Boron, the following—

(a) Boron element (metal) in all forms C

(b) Boron compounds, mixtures, and composites containing 5% or more of boron (except pharmaceutical preparations packaged for retail sale), the following—

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	(1) non-ceramic boron-nitrogen compounds (eg borazanes, borazines and boropyrazoyls)	C
	(2) boron hydrides (eg boranes), except sodium boron hydride, potassium boron hydride, monoborane, diborane and triborane	C
	(3) organoboron compounds, including metallo-organoboron compounds	C
PL7006	Boron compounds and mixtures in which the boron-10 isotope comprises more than 20% of the total boron content	W
IL1733	Base materials, non-composite ceramic materials, ceramic-ceramic composite materials and precursor materials for the manufacture of high temperature fine technical ceramic products, the following— (a) Base materials having all the following characteristics— (1) any of the following compositions— (i) single or complex oxides of zirconium,	A

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and complex oxides of silicon or aluminium;

(ii) single or complex borides of zirconium or titanium;

(iii) single or complex carbides of silicon or boron; or

(iv) single or complex nitrides of silicon, boron, aluminium or zirconium;

(2) total metallic impurities, excluding intentional additions, of less than—

(i) 1,000ppm for single oxides or carbides;

(ii) 5,000ppm for complex compounds, single borides or single nitrides; and

(3) average particle size less than or equal to 5 micrometres and no more than 10% of the particles larger than 10 micrometres except for zirconia where these limits are 1 micrometre and 5 micrometres respectively.

(b) Non-composite ceramic A

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materials, in
crude or semi-
fabricated form,
composed of
any material
specified in head
(a) above, except
abrasives

(c) Ceramic-
ceramic
composite
materials
containing
finely dispersed
particles or
phases or any
non-metallic
fibrous or
whisker-like
materials,
whether
externally
introduced or
grown in situ

during processing,
where the following
materials form the host
matrix–

(1) all oxides, A
including glasses

(2) carbides or A
nitrides of silicon
or boron

(3) borides A
or nitrides of
zirconium or
borides, carbides
or nitrides of
hafnium

(4) any A
combination of
the materials
specified in sub-
heads (c)(1) to
(3) above

except–

manufactured products
or components not

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specified elsewhere in this Schedule.

(d) Precursor materials, (ie. special-purpose polymeric or metallo-organic materials for producing any base or phases of the materials specified inhead (b) or (c) above), the following–

(1) polycabosilanes and polydiorganosilanes (for producing silicon carbide) A

(2) polysilazanes (for producing silicon nitride) A

(3) polycarbosilazanes for producing ceramics with silicon, carbon and nitrogen components A

In this entry–

(a) a “matrix” means a substantially continuous phase that fills the space between particles, whiskers or fibres;

(b) a “composite” means a matrix and an additional phase or additional phases consisting of particles,

- whiskers,
fibres or any
combination
thereof, present
for a specific
purpose or
purposes.
- IL1746 Non-fluorinated
polymeric substances,
the following:
- (a) Polyimides C
(including
maleimides)
- except—
fully cured
polyimide or
polyimide-based
film, sheet, tape
or ribbon having
a maximum
thickness of
0.254mm,
whether or
not coated or
laminated with
heator pressure-
sensitive
resinous
substances of an
adhesive nature,
which contain
no fibrous
reinforcing
materials, and
which have not
been coated
or laminated
with carbon,
graphite, metals
or magnetic
substances.
- (b) C
Polybenzimidazoles
- (c) Aromatic C
polyamides,
including
heterocyclic
aromatic
polyamides
characterised as

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aromatic owing
to the presence
of a benzene ring

(d) C
Polybenzothiazoles

(e) C
Polyoxadiazoles

(f) C
Polyphosphazenes
(polyphosphonitriles)

(g) C
Polystyrylpyridine
(PSP)

(h) C
Thermoplastic
liquid crystal
copolymer
composed of the
following—

(1) Either of the
following—

(A) Phenylene,
biphenylene or
naphthalene; or

(B) Methyl,
tertiary-butyl
or phenyl
substituted
phenylene,
biphenylene or
naphthalene; and

(2) Any of the
following acids—

(A) Terephthalic
acid;

(B) 6-hydroxy-2
naphthoic acid;
or

(C) 4-
hydroxybenzoic
acid;

except—
manufactures
thereof, having
both of the

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following characteristics—

(A) A tensile modulus of less than 15GPa in any direction; and

(B) Specially designed for non-aerospace, non-electronic, civil applications;

(i) Polybenzoxazoles C

(j) Polyarylene ether ketones, the following—

(1) Polyether ether ketone (PEEK) C

(2) Polyether ketone ketone (PEKK) C

(3) Polyether ketone (PEK) C

(4) Polyether ketone ether ketone ketone (PEKEKK) C

(k) Butadiene polymers, the following—

(1) Carboxyl terminated polybutadiene (CTPB) C

(2) Hydroxyl terminated polybutadiene (HTPB) C

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	(3) Thiol terminated polybutadiene (TTPB)	C
	(4) Vinyl terminated polybutadiene (VTPB)	C
	(5) Cyclised 1,2-polybutadiene	C
	(6) Mouldable copolymers of butadiene and acrylic acid	C
	(7) Mouldable terpolymers of butadiene, acrylonitrile and acrylic acid or any of the homologues of acrylic acid	C
	(l) Carboxyl terminated polyisoprene	C
	(m) Polyarylene ketones	C
	(n) Polyarylene sulphides, except polyphenylene sulphide	C
PL7028	Propellants for spacecraft, and related substances, the following: and specially designed software therefor–	
	(a) propellants specially designed for goods specified in IL1465	A
	(b) additives, precursors and stabilisers, for any material	A

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- specified in head
(a) above
- IL1754 Fluorinated
compounds and
materials, and
manufactures thereof,
the following—
- (a) Unprocessed
polymeric
materials and
intermediates,
the following—
- (1) Fluoroelastomeric
compounds
where the
polymer
backbone
consists of at
least 95% of—
- (A) A C
combination of
two or more of
the following
monomers—
- (a) Tetrafluoroethylene;
- (b) Vinylidene
fluoride;
- (c) Hexafluoropropylene;
- (d) Bromotrifluoroethylene;
- (e) Iodotrifluoroethylene;
- (f) Perfluoromethylvinylether;
- (g) Perfluoropropoxypropylvinylether;
except—
the copolymer
of vinylidene
fluoride and
hexafluoropropylene,
or the terpolymer
of vinylidene
fluoride,
hexafluoropropylene
and
tetrafluoroethylene;

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(B) A C
copolymer of
tetrafluoroethylene
and propylene;
or

(C) A C
terpolymer of
tetrafluoroethylene,
vinylidene
fluoride and
propylene

(2) Copolymers C
of vinylidene
fluoride having
75% or more
beta crystalline
structure without
stretching

(3) Fluorinated C
silicone
rubbers, and
intermediates for
their production,
containing
30% or more
of combined
fluorine

(4) Fluorinated C
polyimides, and
hexafluoroacetone
and other
intermediates for
their production,
containing
30% or more
of combined
fluorine

(5) Fluorinated C
phosphazene
elastomers, and
intermediates for
their production,
containing
30% or more
of combined
fluorine

(b)
Manufactures,
the following—

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(1) Electric wire C
and cable coated
with or insulated
with any of
the materials
specified in sub-
head (a)(1)(B) or
(a)(1)(C) above

except—

oil well logging cable;

(2) Seals, C
gaskets, rods,
sheets, sealants
or fuel bladders
made, to the
extent of more
than 50%,
of any of the
compounds
specified in sub-
head (a)(1), (a)
(3), (a)(4) or
(a)(5) above,
and specially
designed for
aerospace or
aircraft use

(3) Piezoelectric C
polymers and
copolymers
made from
vinylidene
fluoride, having
both of the
following
characteristics

(A) In sheet or
film form; and

(B) With a
thickness of
more than 200
micrometre.

(4) Reinforced C
tubing (including
connectors and
fittings for use
with such tubing)
incorporating
coagulated

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dispersion
grades of
polytetrafluoroethylene,
copolymers of
tetrafluoroethylene
and
hexafluoropropylene,
or any of the
fluorocarbon
compounds
specified in
sub-head (a)
(1) above
and designed
for operating
(working)
pressures of 21
MPa or more,
whether or
not specially
processed
to make the
flow surfaces
electrically
conductive

IL1757

Compounds and
materials, the
following—

- (a) C
Monocrystalline
silicon in the
form of ingots
(rods), and
slices or wafers
thereof, having
a resistivity of
more than 1000
ohm-cm
- (b) Gallium of C
a purity equal
to or more than
99.9999% and
gallium III/V
compounds of
any purity level
except—
 - (1) Gallium
phosphide; or
 - (2) Other gallium
III/V compounds

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having all of the following characteristics—

(A) Dislocation density (etch pit density—EPD) exceeding 100 per mm^2 ;

(B) Carrier concentration exceeding 1×10^{14} per mm^3 ;
and

(3) Carrier mobility less than $0.3 \text{ m}^2 / \text{V-s}$;

(c) Indium of a purity more than 99.9995% and III-V indium compounds containing more than 1% indium C

(d) Hetero-epitaxial materials consisting of a monocrystalline insulating substrate epitaxially layered with silicon, III/V compounds of gallium or indium or II/VI compounds of sulphur, selenium or tellurium C

(e) Elemental Cadmium (Cd) and Tellerium (Te) of purity levels equal to or more than 99.9995% and cadmium terullide (CdTe) C

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compounds of a purity level equal to or more than 99.99% or single crystals of cadmium terullide (CdTe) of any purity level

(f) Rods of polycrystalline silicon having either of the following characteristics—

(1) Boron impurity concentration (P-type) equal to or less than 0.052 parts per thousand million atomic C

or
(2) P-type resistivity equal to or more than 5,000 ohm-cm C

(Purity verified in accordance with ASTM F574-83 standard or equivalents, and resistivity measured in accordance with ASTM F43-83 standard or equivalents (see also ASTM F723-82 standard for the conversion between resistivity and density of doping agents)).

(g) Compounds having a purity level (based upon the amount of the primary constituent) of 99.5% or more C

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and used as the silicon source in the deposition of epitaxial layers of silicon, silicon oxide or silicon nitride, and dichlorosilane (SiCl_2H_2) having a purity level of 97% or more

(h) Single crystal sapphire substrates C

(i) Boron oxide (B_2O_3) in powder or cast form with a purity of 99.9% or more, containing 1,000 or less parts per million of water C

(j) Resist materials, the following—

(1) Negative type resists, optimised for photolithography at a wavelength of less than 350 nm C

(2) Positive type resists optimised for photolithography at a wavelength of less than 370 nm C

except—
positive type resists not optimised for a specific wavelength

(3) All resists for use with electron C

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- beams or ion beams with a sensitivity of 50 microcoulomb/cm² or less
- (4) All resists for use with X-rays with a sensitivity of 50 mJ/cm² or less C
- (5) All resists optimised for surface imaging technologies, including silyated resists C
- (6) Image reversal resists C
- (k) Monocrystalline lithium niobate C
- (l) Metallo-organic compounds of beryllium, magnesium, zinc, cadmium, mercury, aluminium, gallium, indium, phosphorus, arsenic or antimony having a purity (metal basis) of 99.999% or more C
- (m) Hydrides of phosphorus, arsenic, antimony, selenium or tellurium having a purity of 99.999% or more, even diluted in neutral gases C
- except—

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those with the addition of 20% molar or more of rare gases or hydrogen.

Notes:

1. Silylation techniques are processes incorporating oxidation of the resist surface to enhance performance for both wet and dry developing.

2. III/V compounds are polycrystalline or binary or complex monocrystalline products consisting of elements of groups IIIA and VA of Mendeleev's periodic classification table (gallium arsenide, gallium-aluminium arsenide, indium phosphide, etc.).

3. II/VI compounds are polycrystalline or binary or complex monocrystalline products consisting of elements of groups IIB and VIA of Mendeleev's periodic classification table (cadmium telluride, cadmium-

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- mercury telluride, cadmium-zinc telluride, etc.).
- PL7034 Graphites, the following:
 - (a) fine grain recrystallised bulk graphites having a bulk density of 1.72g/cc or greater, measured at 15°C A
 - (b) pyrolytic reinforced graphites A
 - (c) fibrous reinforced graphites A
- IL1759 Syntactic foam for underwater use and microspheres, the following—
 - (a) Syntactic foam having either of the following characteristics—
 - (1) designed for marine depths exceeding 1,000 m C
 - (2) a density less than 0.561 g/cm³ unless designed for use at marine depths less than 100 m C
 - (b) Hollow microspheres (microballoons) for use in syntactic foam, having all of the following characteristics— C

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(1) made from glass or plastic;

(2) a true particle density of more than 0.16 g/cm^3 and less than 0.41 g/cm^3 ;

(3) a bulk density of more than 0.088 g/cm^3 and less than 0.23 g/cm^3 ;

(4) a compressive strength more than 2.8 MPa;

(5) a particle size range of 20 to 200 micrometre; and

(6) a floater content of at least 94 per cent by volume.

In this entry–

“syntactic foam” means hollow spheres of plastic or glass embedded in a resin matrix.

IL1763

Fibrous and filamentary materials which may be used in organic matrix, metallic matrix or carbon matrix composite structures or laminates, and such composite structures and laminates and technology therefor, the following: and specially designed ODMA software therefor–

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(a) Fibrous and filamentary materials with specific modulus greater than 3.18×10^6 m and specific tensile strength greater than 7.62×10^4 m A

(b) Fibrous and filamentary materials having both of the following characteristics— C

(1) specific modulus greater than 2.54×10^6 m; and

(2) melting or sublimation point higher than 1,922 K (1,649°C) in an inert environment except—

(A) carbon fibres having a specific modulus less than 5.08×10^6 m and a specific tensile strength less than 2.54×10^4 m;

(B) discontinuous, multiphase, polycrystalline alumina fibres in chopped fibre or random mat form, containing 3% by weight or more silica, having a specific modulus less than 10×10^6 m;

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(C) molybdenum and molybdenum alloy fibres;

(D) discontinuous ceramic fibres having their melting point or sublimation point lower than 2,043K (1,770°C) in an inert environment;

(c) Resin or pitch-impregnated fibres (prepregs), metal or carbon-coated fibres (preforms) or carbon fibre preforms made with materials specified in head (a) or (b) above C

(d) Composite structures, laminates and manufactures thereof for products and components made either with an organic matrix, a carbon matrix or a metal matrix utilising materials specified in head (a), (b) or (c) above C

except—manufactured products or composites not specified elsewhere in this Schedule.

(e) Technology for fibrous and

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filamentary materials and for composite structures and laminates, the following—

(1) technology D
which is unique to the spinning and subsequent treatment of precursor materials into fibres specially designed for processing into carbon filamentary materials specified in head (a) or (b) above

(2) technology D
for the production of fibrous and filamentary materials specified in head (a) or (b) above

(3) technology D
for the production of prepregs specified in head (c) above using pressure impregnation or chemical vapour deposition, and for preforms specified in head (c) above using vacuum or pressure impregnation of chemical vapour deposition

(4) technology D
for the development and production

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of composite structures, laminates and manufactures specified in head (d) above

(5) technology for rigidisation and densification processes specially designed for the manufacture of carbon-carbon composite materials, the following—

- (i) for D
impregnation, infiltration or deposition into carbon fibre preforms
- (ii) for D
carbonisation
- (iii) for D
graphitisation
- (iv) for hot D
isostatic pressing

In this entry—

1. the term “fibrous and filamentary materials” includes:

- (a) continuous monofilaments;
- (b) continuous yarns and rovings;
- (c) tapes, fabrics, random mats and braids;
- (d) chopped fibres,

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staple
fibres and
coherent
fibre
blankets;
(e)
whiskers,
either
monocrystalline
or
polycrystalline,
of any
length;

2. “specific
modulus” is
Young’s modulus
in pascals,
equivalent to
 N/m^2 divided
by specific
weight in N/m^3
measured at a
temperature of
 $(296 \pm 2) K$ ($(23$
 $\pm 2)^\circ C$) and a
relative humidity
of $(50 \pm 5)\%$;

3. “specific
tensile” strength
is ultimate
tensile strength
in pascals,
equivalent to
 N/m^2 divided
by specific
weight in N/m^3
measured at a
temperature of
 $(296 \pm 2) K$ ($(23$
 $\pm 2)^\circ C$) and a
relative humidity
of $(50 \pm 5)\%$;

4. “carbon fibre
preform” means
an ordered
arrangement
of uncoated or
coated fibres
intended to
constitute a
framework of
a part before

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the matrix is introduced to form a composite;
5. “matrix” means a substantially continuous phase that fills the space between particles, whiskers or fibres;
6. “composite” means a matrix and an additional phase or additional phases consisting of particles, whiskers, fibres or any combination thereof, present for a specific purpose or purposes.

PL7046 Resaturated pyrolyzed (ie carbon-carbon) materials designed for use in goods specified in entry IL1465 or ML4 A

IL1767 Preforms of glass or of any other material specially designed for the fabrication of optical fibres specified in head (b) or (c) in entry IL1526 in Group 3F relating to cable and wire C

In this entry “optical fibre preforms” means bars, ingots, or rods of glass, plastic or other materials which have been specially processed for use in fabricating optical fibres.

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PL7007

Chemicals, the following—

- | | |
|--|---|
| (a) Ammonium hydrogen fluoride | A |
| (b) Arsenic trichloride | A |
| (c) Benzilic acid | A |
| (d) 2-chloroethanol | A |
| (e) Diethylaminoethanol | A |
| (f) Diethyl ethylphosphonate | A |
| (g) Diethyl methylphosphonite | A |
| (h) Diethyl-N, N-dimethylphosphoramidate | A |
| (i) Diethyl phosphite | A |
| (j) Di-isopropylamine | A |
| (k) Dimethylamine | A |
| (l) Dimethylamine hydrochloride | A |
| (m) Dimethyl ethylphosphonate | A |
| (n) Dimethyl methylphosphonate | A |
| (o) Dimethylphosphite | A |
| (p) Ethyl phosphinyl dichloride | A |
| (q) Ethyl phosphinyl difluoride | A |
| (r) Ethyl phosphonyl dichloride | A |

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(s) Ethyl phosphonyl difluoride	A
(t) 3-hydroxy-1- methylpiperidine	A
(u) Hydrogen fluoride	A
(v) Methyl benzilate	A
(w) Methyl phosphinyl dichloride	A
(x) Methyl phosphinyl difluoride	A
(y) Methyl phosphonyl dichloride	A
(z) Methyl phosphonyl difluoride	A
(aa) N,N- diisopropyl- (Beta)- aminoethane thiol	A
(bb) N,N- diisopropyl- (Beta)-amino ethanol	A
(cc) N,N- diisopropyl- (Beta)- aminoethyl chloride	A
(dd) O- ethyl-2-di- isopropylaminoethyl methylphosphonite	A
(ee) Pinacolone	A
(ff) Pinacolyl alcohol	A
(gg) Phosphorus oxychloride	A

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(hh) Phosphorus pentachloride	A
(ii) Phosphorus pentasulphide	A
(jj) Phosphorus trichloride	A
(kk) Potassium bifluoride	A
(ll) Potassium cyanide	A
(mm) Potassium fluoride	A
(nn) 3-quinuclidinol	A
(oo) 3-quinuclidone	A
(pp) Sodium bifluoride	A
(qq) Sodium cyanide	A
(rr) Sodium fluoride	A
(ss) Sodium sulphide	A
(tt) Thiodiglycol	A
(uu) Thionyl chloride	A
(vv) Tri-ethanolamine	A
(ww) Triethyl phosphite	A
(xx) Trimethyl phosphite	A

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Methyl benzilate	PL 7007
Methyl phosphinyl dichloride	PL 7007
Methyl phosphinyl difluoride	PL 7007
Methyl phosphonyl dichloride	PL 7007
Methyl phosphonyl difluoride	PL 7007
Microchannel plates	IL 1556 b
Microcomputer microcircuits	IL 1564
Microdensitometers	IL 1534
Microprocessor development systems	IL 1529 k and IL 1565 h 1
Microprocessor microcircuits	IL 1564
Microprocessor support integrated circuits	IL 1564 a
Microwave amplifiers	IL 1537 h
Microwave assemblies	IL 1537
Microwave equipment	IL 1537
Microwave radio links	IL 1520 a
Millimetric wave equipment	IL 1537
Milling machines	IL 1091 b
Mixers for propellants	PL 7030
MOCVD	IL 1355 b 1
Modems	IL 1519 a
Modules	IL 1564
Modules with mounted components	IL 1564

Moisture and particulate separator systems	IL 1416 g
Molecular beam epitaxy (MBE)	IL 1355 b 1
Molybdenum alloy fibre	IL 1763
Molybdenum alloy particles	PL 7036
Molybdenum fibre	IL 1763
Molybdenum particles	PL 7036
Monocrystalline silicon	IL 1757 a
Monolithic integrated circuits	IL 1564
Multi-data-stream processing	IL 1565 h
Multichip integrated circuits	IL 1564
Multiplex equipment	IL 1519
N,N-diisopropyl-(beta)-amino ethanol	PL 7007
N,N-diisopropyl-(beta)-aminoethane thiol	PL 7007
N,N-diisopropyl-(beta)-aminoethyl chloride	PL 7007
Navigation equipment	IL 1501 b
Network analyzers	IL 1533 c
Network management protocol	IL 1567 b
Networking equipment	IL 1565 h
Neural networks	IL 1564 a
Nickel based alloys	IL 1672 b
Niobium-titanium wire	IL 1675 b
NMOS monolithic integrated circuits	IL 1564 a
Non-composite ceramic materials	IL 1733
Non-fluorinated polymeric substances	IL 1746 a
Non-rechargeable batteries	IL 1205 a
Nozzles	PL 7025 a
Numerical control (NC) units	IL 1091 a
Numerically controlled machine tools	IL 1091
O-ethyl-2-di-isopropylaminoethyl methylphosphonite	PL 7007
Ocean cable	IL 1526 a
Operating systems	IL 1566 b
Optical disk drives	IL 1565 h
Optical elements	IL 1556
Optical elements, diffractive type	IL 1556 d

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Optical fibre cable	IL 1526 c
Optical fibre characterisation equipment	IL 1353
Optical fibre connectors	IL 1526 e
Optical fibre couplers	IL 1526 e
Optical fibre manufacturing equipment	IL 1353
Optical fibre sensors	IL 1526 d
Optical fibres	IL 1526 c and d
Optical integrated circuits	IL 1564
Optical quality surface manufacture	IL 1370
Oxidation furnaces	IL 1355 b 1
Oxygen/carbon content measuring equipment	IL 1355 b 4
PABXs	IL 1567 b
Packet switching	IL 1567
Panoramic radio receivers	IL 1516 a
Parametric amplifiers	IL 1537 h
Particle measuring systems	IL 1355 b 11
PCBs with mounted components	IL 1564
PCM testers	IL 1519 d
Pellicles	IL 1355 b 2
Peniotrons	IL 1558 e
Peripheral equipment	IL 1565 h
Phase slip devices	IL 1574
Phased array antenna	IL 1537 d
Phosphorus oxychloride	PL 7007
Phosphorus pentachloride	PL 7007
Phosphorus trichloride	PL 7007
Photo-enhanced reactors	IL 1355 b 1
Photo-voltaic cells	IL 1205 b
Photocathodes	IL 1556 c
Photoconductive cells	IL 1548
Photodiodes	IL 1548
Photographic equipment	IL 1585
Photographic film	IL 1585
Photolithography	IL 1355 b 2
Photomultiplier tubes	IL 1549

Photosensitive components	IL 1548
Phototransistors	IL 1548
Pinacolone	IL 7007
Pinacolyl alcohol	PL 7007
Pipe valves	PL 7017
PLAs	IL 1564
Plasma enhanced chemical vapour deposition	IL 1355 b 1
Plasma etchers, semiconductor	IL 1355 b 1
Plasma spraying production equipment	IL 1388 d
Plasma-enhanced reactors	IL 1355 b 1
PMOS monolithic integrated circuits	IL 1564 a
Polenzimidazoles	IL 1746 b
Polenzothiazoles	IL 1746 d
Polybenzoxozoles	IL 1746 i
Polycrystalline alumina fibre	IL 1763
Polycrystalline silicon	IL 1757 f
Polycrystalline silicon production	IL 1355 b 1
Polyimides	IL 1746 a
Polymeric materials	IL 1733 d and IL 1754 b
Polyoxadiazoles	IL 1746 e
Polyphosphazenes	IL 1746 f
Polyphosphonitriles	IL 1746 f
Polystyrylpyridine (PSP)	IL 1746 g
Position enoders	IL 1568 d
Positioning equipment	IL 1501 b
Positioning systems, acoustic	IL 1510
Potassium bifluoride	PL 7007
Potassium cyanide	PL 7007
Potassium fluoride	PL 7007
Potassium trichloride	PL 7007
Power sources, radio-active	IL 1205 c
Precursor materials	IL 1733
Preform characterisation equipment	IL 1353
Preforms of glass	IL 1767
Presses, isostatic	IL 1312 and PL 7032

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Pressure regulators	PL 7017
Primary cells	IL 1205 a
Private automatic exchanges	IL 1567 b
Programmable logic arrays	IL 1564
Programmable read only memories	IL 1564 a
Programming systems	IL 1566 b
PROMs	IL 1564 a
Propellant production equipment	PL 7029 a
Propellants for spacecraft	PL 7028
Propeller hubs	IL 1416
Propellers, marine	IL 1416
Propulsion systems, spacecraft	IL 1465 c
Proximity-effect devices	IL 1574
Pullers, semiconductor crystal	IL 1355 b 1
Pulsejets	PL 7026
Pumpjet systems	IL 1416 f
Pumps	IL 1131 and PL 7018
Pyrolitic deposition systems	PL 7025
Pyrolitic deposition technology	PL 7025 a
Pyrolitic detectors	IL 1548
Quadrature amplitude modulation technology	IL 1520 d
Quartz crystals	PL 5026
Quasiparticle devices or detectors	IL 1574
3-quinuclidinol	PL 7007
3-quinuclidone	PL 7007
Radar equipment	IL 1501 c
Radiation hard integrated circuits	IL 1564 a
Radio equipment	IL 1520 a, IL 1516, IL 1517 and IL 1531
Radio receivers	IL 1516 and IL 1531 d
Radio relay communication equipment	IL 1520
Radio transmitters	IL 1517 and IL 1531 e
Radiographic equipment	PL 7042
RAMs	IL 1564 a
Ramjets	PL 7026
Random access memories	IL 1564 a

Rankine cycle engines	IL 1417 h
Read only memories	IL 1564 a
Real time processing	IL 1565 h 1
Rechargeable batteries	IL 1205 a
Recording equipment	IL 1572
Recording equipment using lasers	IL 1572 b
Recording media	IL 1572 d
Reproducing equipment	IL 1572
Reproducing equipment using lasers	IL 1572 b
Resaturated pyrolyzed materials	PL 7046
Reserve batteries	IL 1205 a
Resin or pitch-impregnated fibres (prepregs)	IL 1763 d
Resist materials	IL 1757 j
Resolvers, solid state	IL 1568 c
Reticles	IL 1355 b 2
Robot controllers	IL 1391 b
Robots	IL 1391 a
Rocket engine production equipment	PL 7044
ROMs	IL 1564 d
Ruggedized computers	IL 1565 f
Sample and hold integrated circuits	IL 1564 d
Sapphire substrates	IL 1757 h
Satellite communications equipment	IL 1520
Satellite navigation equipment	IL 1501 b
SAWs	IL 1586
Scalar network analyzers	IL 1533 d
Scanning electron microscopes	IL 1355 b 1
Scramjets	PL 7026
Secondary cells	IL 1205 a
Seismic/geophysical recorders	IL 1572 a
SEMs	IL 1355
Semiconductor CAD	IL 1355 b 2
Semiconductor photodiodes	IL 1548 b
Semiconductor phototransistors	IL 1548 b
Semiconductor processing equipments	IL 1355 b 1

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Sensors, robot	IL 1391 c
Separator systems, vessel	IL 1416
Ships, craft	IL 1416 and PL 7009
Signal analyzers	IL 1533 a
Signal generators	IL 1529 and IL 1351
Signal processing	IL 1565 h
Signal processing devices	IL 1586
Silicon	IL 1757
Silicon microcomputer microcircuits	IL 1564 a
Silicon microprocessor microcircuits	IL 1564 a
Simulators, EMI/EMP	IL 1361
SIS devices	IL 1574
SNS bridges	IL 1574
Sodium bifluoride	PL 7007
Sodium cyanide	PL 7007
Sodium fluoride	PL 7007
Sodium sulphide	PL 7007
Software	IL 1566
Software definitions	IL 1566
Software, technology	IL 1566 c
Solar cells	IL 1205 b
Solid state storage equipment	IL 1565 h
Solid state switches	PL 7022
Sonar systems	IL 1510
Space division analogue exchanges	IL 1567 b
Space-division digital exchange	IL 1567
Spacecraft	IL 1465 a
SPC communication switching	IL 1567
SPC communication switching technology	IL 1567 c
SPC telegraph circuit switching	IL 1567 b
SPC telephone circuit switching	IL 1567 b
SPC telephone circuit switching exchanges	IL 1567
Spectrum analyzers	IL 1533
Spread spectrum receivers	IL 1516 c
SPS circuit switching	IL 1565 h l and IL 1567

Sputter deposition production equipment	IL 1388 e
Sputtering equipment	IL 1355 b l and IL 1388 e
SQUIDs	IL 1574
SRAMs	IL 1564 d
Static random access memories	IL 1564 a
Statistical multiplexers	IL 1519 and IL 1567
Steel alloy	PL 7002
Steerable parachutes	PL 7016
Step and repeat cameras	IL 1355 b 2
Stirling cycle engines	IL 1417 h
Storage integrated circuits	IL 1564 a
Store and forward	IL 1567
Stored programme controlled communications	IL 1567
Streak cameras	IL 1585 d
Streamer tape drives	IL 1565 h and IL 1572 a
Submersible systems	IL 1417
Submersibles	IL 1418
Substrates	IL 1564
Superconducting materials	IL 1574
Superconducting quantum interference devices (SQUID)	IL 1754
Superconductive electromagnets	IL 1573
Superconductive materials	IL 1675
Superconductive solenoids	IL 1573
Superplastic forming technology	IL 1001
Support integrated circuits	IL 1564 a
Surface acoustic wave devices	IL 1586
Surface-effect vehicles	IL 1416 b
SWATH vessels	IL 1416 c
Syntactic foam	IL 1759
Synthesized radios	IL 1531
Synthesized signal generators	IL 1531 b
Tantalum	PL 7012
Tantalum crucibles	PL 7012
Tape drives	IL 1565 h and IL 1572 a

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Tape-laying machines	IL 1357
Technology (computers)	IL 1565 j
Technology for atomising processes	PL 7031 b
Technology for fibrous and filamentary materials	IL 1763 e
Technology, coating	IL 1389
Technology, communication switching	IL 1567 c
Technology, software	IL 1566 c
Telecommunication transmission equipment	IL 1519
Telecontrol equipment	PL 7020
Telegraph circuit switching	IL 1567 b
Telemetering equipment	PL 7020
Telephone circuit switching	IL 1567 b
Tellurium	IL 1757 e
Terminal exchange	IL 1567
Test benches for rockets/rocket motors	PL 7045
Testing equipment, electronic	IL 1529
Tetrodes	IL 1558 a
Thermoplastic liquid crystal copolyesters	IL 1746 h
Thiodiglycol	PL 7007
Thionyl chloride	PL 7007
Thrusters	IL 1362 a
Time-division analogue exchanges	IL 1567 b
Time-division digital exchange	IL 1567
Timing receivers	IL 1501 b
Titanium aluminides	IL 1672
Titanium based alloys	IL 1672
Towed hydrophone arrays	IL 1510
Tracking equipment	IL 1502
Transcoders	IL 1519
Transducers	IL 1510 and IL 1568
Transit exchange	IL 1567
Transmission equipment	IL 1519
Transmission media simulators	IL 1520 b
Transmitter-amplifiers	IL 1517

Transmitters	IL 1517
Travelling wave tubes	IL 1558 c
Tri-ethanolamine	PL 7007
Triggered spark gaps	PL 7023
Triethyl phosphate	PL 7007
Trimethyl phosphite	PL 7007
Trimming of monolithic integrated circuits	IL 1355 b l
Triodes	IL 1558 a
Tropospheric scatter communication equipment	IL 1520 and PL 7008
Tubes	IL 1558
Tungsten alloy particles	PL 7035
Tungsten particles	PL 7035
TVRO	IL 1520
Ubitrons	IL 1558 e
Ultrasonic detecting equipment	IL 1502
Ultrasonic equipment	IL 1502
Ultrasonic positioning equipment	IL 1502
Underwater cameras	IL 1417 e
Underwater communication cable	IL 1526 e
Underwater vehicles	IL 1418
Underwater vision systems	IL 1417 c
Unencapsulated integrated circuits	IL 1564 a
Unfinished wafers	IL 1564 a
User-accessible microprogrammability	IL 1565 h
Vacuum atomising production equipment	PL 7031 a
Vacuum induction furnaces	PL 7019
Vacuum photodiodes	IL 1548 a
Valves	PL 7018
Vessel models	IL 1363
Vessel propulsion systems	IL 1416
Vessels	IL 1416 and PL 7007
Vibration test equipment	IL 1362
Video cameras	IL 1585 f
Video recorders	IL 1572 a
Video tape	IL 1572 a and d

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Vision systems, robot	IL 1391
Wafer defect inspection equipment	IL 1355 b 3
Wafer polishers	IL 1355 b 1
Wafer probers	IL 1355 b 6
Water tunnels	IL 1363
Waveguides	IL 1537
Waving machines	IL 1357
Weak-link devices	IL 1574
Wide area networks	IL 1565 h and IL 1567 a
Wide swath bathymetric survey systems	IL 1510 a
Winchester disc drives	IL 1565 h and IL 1572 a
Wind tunnel, instrumentation	IL 1361
Wind tunnel, models	IL 1361
Wind tunnels	IL 1361
Wire bonders	IL 1355 b 5
X-ray systems	IL 1553
X-ray tubes	IL 1553
Zone-refining equipment	IL 1355 b 1
