

Categories of materials in SCIP:

Lists of categories of materials and additional material characteristics included in the SCIP format

1. List of categories and subcategories of materials in SCIP.....	3
1.1. Ceramic.....	3
1.2. Glass.....	4
1.3. Leather and raw hides.....	4
1.4. Metal.....	4
1.5. Paper and board.....	6
1.6. Plastic (and polymers).....	6
1.7. Rubber and elastomers.....	8
1.8. Stone, plaster, and cement.....	8
1.9. Textile fibres and other fibres.....	9
1.10. Wood and cork.....	10
1.11. Other.....	10
2. List of additional material characteristics concerning the material an article is made of.....	11
3. Examples for identifying a material category and subcategory (or categories and subcategories).....	13
4. Identifying composite materials.....	17

Tables

Table 1: Ceramic category and subcategories.....	3
Table 2: Glass category and subcategories.....	4
Table 3: Leather and raw hides category and subcategories.....	4
Table 4: Metal category and subcategories.....	4
Table 5: Paper and board category and subcategories.....	6
Table 6: plastic (and polymers) category and subcategories.....	6
Table 7: Rubber and elastomers category and subcategories.....	8
Table 8: Stone, plaster, and cement category and subcategories.....	8
Table 9: Textile fibres and other fibres category and subcategories.....	9
Table 10: Wood and cork category and subcategories.....	10
Table 11: 'Other' category and subcategories.....	10
Table 12: Additional material characteristic(s) or information on the material an article is made of.....	11
Table 13: Example(s) for each overarching category.....	13

Version	Changes	Date
Version 1.0	First edition.	October 2020
Version 2.0	(1) Addition of the entry "recovered" to Table 12 on "Additional material characteristic(s) or information on the material an article is made of" under Section 2. (2) Correction to the Title of Section 1.9 and Contents. (3) Addition of versions information.	October 2021

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1. List of categories and subcategories of materials in SCIP

List of categories and subcategories of materials to be used when submitting SCIP notifications to the SCIP database for reporting on the material an article is made of according to the 'material category' requirement as included in the SCIP format.

In the submissions to the SCIP database, the minimum information to be reported in a SCIP notification for a material an article is made of is at the level of the overarching material categories and the subsequent subcategories, i.e. levels 1 and 2 (first and second columns, respectively) in the Tables 1 to 11 below. Further specification of the material according to subcategories in level 3 (third column) of the same Tables is only provided on a voluntary basis, if available to the submitter.

Composite materials are addressed in section 4 below.

1.1. Ceramic

Table 1: Ceramic category and subcategories

Category 1 (level 1)	Subcategory (level 2)	Subcategory (level 3)
Ceramic		
	clays / silicate ceramic	<ul style="list-style-type: none"> • clays • earthenware • porcelain or china • stoneware • other
	oxide ceramic	<ul style="list-style-type: none"> • aluminium oxide ceramic • aluminium titanate (ATI) ceramic • beryllium oxide ceramic • lead zirconium titanate (PZT) ceramic • magnesium oxide ceramic • magnesium titanate ceramic • titanium dioxide ceramic • ferroelectric perovskites based ceramic • zirconium oxide ceramic • other
	non-oxide ceramic	<ul style="list-style-type: none"> • silicon carbide ceramic • boron carbide ceramic • aluminium nitride ceramic • boron nitride ceramic • silicon nitride ceramic • titanium nitride ceramic • silicon aluminium oxynitride (SIALON) • other
	frit	
refractory		

1.2. Glass

Table 2: Glass category and subcategories

Category 2 (level 1)	Subcategory (level 2)	Subcategory (level 3)
Glass	soda-lime glass	
	lead crystal and crystal glass	<ul style="list-style-type: none"> • Category No. 1 (Annex I to Directive 69/493/EEC) • Category No. 2 (Annex I to Directive 69/493/EEC) • Category No. 3 (Annex I to Directive 69/493/EEC) • Category No. 4 (Annex I to Directive 69/493/EEC)
	borosilicate glass	
	fused quartz and fused silica glass	
	optical glass	
	sintered glass	
	glass ceramic	
	other special glass	

1.3. Leather and raw hides

Table 3: Leather and raw hides category and subcategories

Category 3 (level 1)	Subcategory (level 2)
Leather and raw hides	
	leather
	chamois leather
	raw hides and skins
	furskins
	feathers
	other material of animal origin, not specified elsewhere

1.4. Metal

Table 4: Metal category and subcategories

Category 4 (level 1)	Subcategory (level 2)	Subcategory (level 3)
Metal		
	iron (and alloys of, except steel)	<ul style="list-style-type: none"> • iron, not alloyed • ferro-alloy containing copper, except steel • ferro-alloy containing tin, except

Category 4 (level 1)	Subcategory (level 2)	Subcategory (level 3)
Metal		
		steel <ul style="list-style-type: none"> • other ferro-alloy, except steel
	steel	<ul style="list-style-type: none"> • carbon steel (non-alloy steel) • stainless steel • alloy steel (except stainless steel) • steel containing copper • steel containing tin
	aluminium (and alloys of)	<ul style="list-style-type: none"> • aluminium, not alloyed • aluminium alloy containing lithium • other aluminium alloy
	antimony (and alloys of)	
	bismuth (and alloys of)	
	brass	<ul style="list-style-type: none"> • containing bismuth
	bronze	<ul style="list-style-type: none"> • containing bismuth
	cadmium (and alloys of)	
	cobalt (and alloys of)	
	copper (and alloys of, except bronze and brass)	<ul style="list-style-type: none"> • copper, not alloyed • copper-alloy containing bismuth, except bronze and brass • other copper-alloy, except bronze and brass
	lead (and alloys of)	<ul style="list-style-type: none"> • lead, not alloyed • lead alloy
	magnesium (and alloys of)	
	manganese (and alloys of)	
	molybdenum (and alloys of)	
	nickel (and alloys of)	<ul style="list-style-type: none"> • nickel, not alloyed • nickel alloy
	tantalum (and alloys of)	
	tin (and alloys of), except bronze	<ul style="list-style-type: none"> • tin, not alloyed • tin alloy, except bronze
	titanium (and alloys of)	
	tungsten (and alloys of)	
zinc (and alloys of, except brass)	<ul style="list-style-type: none"> • zinc, not alloyed • zinc alloy, except brass 	
zirconium (and alloys of)		
other non-ferrous metal (and alloys of)	<ul style="list-style-type: none"> • rare-earth (and alloys of) • precious-metal (and alloys of) • other 	

1.5. Paper and board

Table 5: Paper and board category and subcategories

Category 5 (level 1)	Subcategory (level 2)	Subcategory (level 3)
Paper and board		
	printing and writing paper	<ul style="list-style-type: none"> • virgin pulp • recovered pulp
	newsprint paper	
	supercalendered (SC) paper	
	ultra-light weight paper	
	light weight paper	
	medium weight paper	
	high weight paper	
	wood-free	
	kraft paper and kraft wrapping	
	tissue paper	
	tracing paper	
	carbonless paper	
	carbon paper	
	glassine/greaseproof paper	
	fine paper	
	filter paper	
	thermal paper	
	other speciality paper	
	non-corrugated fibreboard	
corrugated fibreboard		
other paper (not elsewhere specified)		
other board (not elsewhere specified)		

1.6. Plastic (and polymers)

Table 6: plastic (and polymers) category and subcategories

Category 6 (level 1)	Subcategory (level 2)
Plastic (and polymers)	
	polyethylene, low density (LDPE)
	polyethylene, high density (HDPE)
	polypropylene (PP)
	polyisobutylene
	copolymers of ethylene-vinyl acetate
	other copolymers of ethylene
	copolymers of propylene
	polymers and copolymers of olefins, not elsewhere specified
	polyvinylchloride (PVC), hard
	polyvinylchloride (PVC), soft
	copolymers of vinyl chloride-vinyl acetate
	other copolymers of vinyl chloride

Category 6 (level 1)	Subcategory (level 2)
Plastic (and polymers)	
	polymers and copolymers of vinylidene chloride
	fluoropolymers
	polymers and copolymers of halogenated olefins, not elsewhere specified
	polystyrene, expansible (EPS)
	polystyrene
	copolymers of styrene-acrylonitrile (SAN)
	copolymers of acrylonitrile-butadiene-styrene (ABS)
	brominated polystyrene
	polymers and copolymers of styrene and its derivatives, not elsewhere specified
	polyvinyl acetate (PVA)
	copolymers of vinyl acetate
	poly(vinyl alcohol)
	other polyvinyl esters and vinyl (co)polymers
	poly(methyl methacrylate) (PMMA)
	polyacrylamides, including copolymers
	other acrylic polymers and copolymers, not elsewhere specified
	polyacetals, including copolymers
	polyether alcohols, including copolymers
	other polyethers, including copolymers
	polycarbonates (PCs), including copolymers
	poly(ethylene terephthalate) (PET), including copolymers
	poly(lactic acid)
	other polyesters, not elsewhere specified
	polyimides,
	epoxide resins
	alkyd resins
	other polyallyl esters
	other polyesters
	polyamides, including copolymers
	silicones (or polysiloxanes), including copolymers
	urea and thiourea resins
	melamine resins
	other amino-resins
	phenolic resins
	polyurethanes
	natural polymers, not elsewhere specified
	modified natural polymers, not elsewhere specified
	petroleum resins
	coumarone, indene or coumarone-indene resins
polyterpenes	
polysulphides and polysulphones	
cellulose and its chemical derivatives (not elsewhere specified)	
other non-halogenated (co)polymers	
other halogenated (co)polymers	

1.7. Rubber and elastomers

Table 7: Rubber and elastomers category and subcategories

Category 7 (level 1)	Subcategory (level 2)
Rubber and elastomers	
	natural rubber
	natural gums
	styrene-butadiene rubber (SBR)
	carboxylated styrene-butadiene rubber (XSBR)
	butadiene rubber (BR)
	isobutene-isoprene (butyl) rubber (IIR)
	halo-isobutene-isoprene rubber (CIIR or BIIR)
	chloroprene (chlorobutadiene) rubber (CR)
	acrylonitrile-butadiene rubber (NBR)
	isoprene rubber (IR)
	ethylene propylene rubber (EPR)
	chlorosuphonated polyethylene rubber (CSM)
	fluoropolymer rubber
	ethylene-propylene-non-conjugated diene rubber (EPDM)
	silicone rubber
urethane rubber (PUR)	
other halogenated rubber	
other rubber	
hard rubber (e.g. ebonite)	

1.8. Stone, plaster, and cement

Table 8: Stone, plaster, and cement category and subcategories

Category 8 (level 1)	Subcategory (level 2)
Stone, plaster, and cement	
	stone (massive)
	precious and semi-precious stone and pearls
	plaster
	gypsum
	cement
	concrete
	expanded minerals
	artificial stone
	mica
	mineral agglomerates, grains, and particles
	stone- or rock-wool
	slag-wool
	other mineral wools
carbon fibres	
other minerals	

1.9. Textile fibres and other fibres

Table 9: Textile fibres and other fibres category and subcategories

Category 9 (level 1)	Subcategory (level 2)
Textile fibres and other fibres	
	natural fibre of animal origin
	natural fibre of vegetable origin
	acetate (cellulose acetate fibre)
	alginate
	cupro (regenerated cellulose fibre)
	modal (regenerated cellulose fibre)
	protein (fibre obtained from)
	triacetate (cellulose acetate fibre)
	viscose (regenerated cellulose fibre)
	acrylic
	chlorofibre
	fluorofibre
	modacrylic
	polyamide or nylon
	aramid
	polyimide
	lyocell (regenerated cellulose fibre)
	polylactide
	polyester
	polyethylene
	polypropylene
	polycarbamide
	polyurethane
	vinylal
	trivinyll
	elastodiene
elastane	
glass fibre (textile fibre)	
elastomultiester	
elastolefin	
melamine	
fibres obtained from miscellaneous or new materials not listed above (textile fibre), e.g. metal (metallic, metallised), paper	
polypropylene/polyamide bicomponent	
other synthetic fibres	

1.10. Wood and cork

Table 10: Wood and cork category and subcategories

Category 10 (level 1)	Subcategory (level 2)
Wood and cork	
	wood (massive)
	wood wool
	wood flour, sawdust
	chipwood
	wood fibres
	forest residues
	cork
	straw
	esparto
	other plaiting materials
cane	
other materials of vegetal origin, not specified elsewhere	

1.11. Other

Table 11: 'Other' category and subcategories

Category 11 (level 1)	Subcategory (level 2)
Other:	<i>[text field] Provide the identification or description of a material that cannot be identified or described by using other categories / subcategories.*</i>

* Note: It should not include materials that can be described based on other categories and respective subcategories. Avoid to use this category to cover composite or hybrid materials; See section 4 concerning such materials below.

2. List of additional material characteristics concerning the material an article is made of

List of additional material characteristic(s) to provide, when relevant and on a voluntary basis, additional information on the material the article is made of when submitting SCIP notifications to the SCIP database according to the 'Additional material characteristic(s)' requirement as included in the SCIP format. This additional information complements the identification of the material category/subcategory, as listed in Tables 1 to 11 above, in better describing the material an article is made of.

The 'composite material' entry of Table 12 is relevant to report composite or hybrid materials as explained in section 4 below.

Table 12: Additional material characteristic(s) or information on the material an article is made of

Additional characteristic or information	Applicable to a specific category (section 1), if applicable
composite material	
fibres	
microspheres and particles	
coloured	
uncoloured	
coated	
uncoated	
impregnated or treated (other additive chemical treatment)	
enamelled	
foam	
glazed	
non-glazed	
laminated	
plated	
vitriified	
bleached	
unbleached	
recovered	
glass wool	Category 2. Glass
green glass	Category 2. Glass
brown glass	Category 2. Glass
other coloured glass	Category 2. Glass
flat glass (rolled and float glass)	Category 2. Glass
crust	Category 3. Leather and raw hides

Additional characteristic or information	Applicable to a specific category (section 1), if applicable
metallised leather	Category 3. Leather and raw hides
patent leather	Category 3. Leather and raw hides
metallic glass	Category 4. Metal
thermoplastic	Category 6. Plastic (and polymers)
thermoset	Category 6. Plastic (and polymers)
water-soluble polymer	Category 6. Plastic (and polymers)
polyelectrolyte	Category 6. Plastic (and polymers)
compounded with carbon black or silica	Category 7. Rubber and elastomers
compounded (other)	Category 7. Rubber and elastomers
latex	Category 7. Rubber and elastomers
siliconated vulcanised	Category 7. Rubber and elastomers
vulcanised (other)	Category 7. Rubber and elastomers
unvulcanised	Category 7. Rubber and elastomers
other: <i>[text field]</i>	

3. Examples for identifying a material category and subcategory (or categories and subcategories)

Table 13: Example(s) for each overarching category

Category	Examples
<p>1. Ceramic</p>	<p>Piezoelectric ceramic sensor (e.g. CN 8541 90 00)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Ceramic <ul style="list-style-type: none"> ○ <u>Subcategory (level 2)</u>: oxide ceramic <ul style="list-style-type: none"> ▪ <u>Subcategory (level 3)</u>: Lead zirconium titanate (PZT) ceramics <p><i>Note: Information to be provided until level 2. Information under level 3 to be provided only if available to the submitter.</i></p> <p><u>Summary:</u></p> <ul style="list-style-type: none"> • ceramic > oxide ceramic > Lead zirconium titanate (PZT) ceramic
<p>2. Glass</p>	<p>Microwave oven revolving glass plate (e.g. CN 7013 49 99)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Glass <ul style="list-style-type: none"> ○ <u>Subcategory (level 2)</u>: borosilicate glass - <u>Additional characteristic/information</u>: uncoloured <p><i>Note: Information to be provided until level 2. Information under level 3 to be provided only if available to the submitter.</i></p> <p><u>Summary:</u></p> <ul style="list-style-type: none"> • Glass > borosilicate glass <ul style="list-style-type: none"> - uncoloured <hr/> <p>Coloured glass vase (decoration) (e.g. CN 7013 99 00)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Glass <ul style="list-style-type: none"> ○ <u>Subcategory (level 2)</u>: soda-lime glass - <u>Additional characteristic/information</u>: coloured <p><i>Note: Information to be provided until level 2. Information under level 3 to be provided only if available to the submitter.</i></p> <p><u>Summary:</u></p> <ul style="list-style-type: none"> • Glass > soda-lime glass <ul style="list-style-type: none"> - coloured

Category	Examples
3. Leather and raw hides	<p>Chamois leather cloth (e.g. CN 4205 00 90)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Leather and raw hides <ul style="list-style-type: none"> ○ <u>Subcategory (level 2)</u>: chamois leather - <u>Additional characteristic/information</u>: coloured <p><i>Note: Information to be provided until level 2.</i></p> <p><u>Summary</u>:</p> <ul style="list-style-type: none"> • Leather and raw hides > chamois leather <ul style="list-style-type: none"> - coloured
4. Metal	<p>Metal blade (e.g. CN 8214 10 00)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Metal <ul style="list-style-type: none"> ○ <u>Subcategory (level 2)</u>: steel <ul style="list-style-type: none"> ▪ <u>Subcategory (level 3)</u>: stainless steel - <u>Additional characteristic/information</u>: plated <p><i>Note: Information to be provided until level 2. Information under level 3 to be provided only if available to the submitter.</i></p> <p><u>Summary</u>:</p> <ul style="list-style-type: none"> • Metal > steel > stainless steel <ul style="list-style-type: none"> - plated
5. Paper and board	<p>Thermal paper roll (e.g. CN 4809 90 00 (10))</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Paper and board <ul style="list-style-type: none"> ○ <u>Subcategory (level 2)</u>: thermal paper <ul style="list-style-type: none"> ▪ <u>Subcategory (level 3)</u>: virgin pulp - <u>Additional characteristic/information</u>: coated - <u>Additional characteristic/information</u>: uncoloured - <u>Additional characteristic/information</u>: impregnated or treated (other additive chemical treatment) <p><i>Note: Information to be provided until level 2. Information under level 3 to be provided only if available to the submitter.</i></p> <p><u>Summary</u>:</p> <ul style="list-style-type: none"> • Paper and board > thermal paper > virgin pulp <ul style="list-style-type: none"> - coated - uncoloured - impregnated or treated (other additive chemical treatment)

Category	Examples
6. Plastic (and polymers)	<p>Inflatable ball (e.g. CN 9506 62 00) (<i>main body only; valve and other components not considered in this example</i>)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Plastic (and polymers) <ul style="list-style-type: none"> ◦ <u>Subcategory (level 2)</u>: polyvinylchloride (PVC), soft - <u>Additional characteristic/information</u>: thermoplastic - <u>Additional characteristic/information</u>: coloured <p><i>Note: Information to be provided until level 2.</i></p> <p><u>Summary:</u></p> <ul style="list-style-type: none"> • Plastic (and polymers) > polyvinylchloride (PVC), soft <ul style="list-style-type: none"> - thermoplastic - coloured
7. Rubber and elastomers	<p>O-ring (e.g. CN 4016 93 00)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Rubber and elastomers <ul style="list-style-type: none"> ◦ <u>Subcategory (level 2)</u>: ethylene-propylene-non-conjugated diene rubber (EPDM) - <u>Additional characteristic/information</u>: vulcanised (other) - <u>Additional characteristic/information</u>: uncoloured <p><i>Note: Information to be provided until level 2.</i></p> <p><u>Summary:</u></p> <ul style="list-style-type: none"> • Rubber and elastomers > ethylene-propylene-non-conjugated diene rubber (EPDM) <ul style="list-style-type: none"> - vulcanised (other) - uncoloured
8. Stone, plaster and cement	<p>Granite table top (e.g. CN 6802 93 10, 9403 90 90)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Stone, plaster and cement <ul style="list-style-type: none"> ◦ <u>Subcategory (level 2)</u>: stone (massive) - <u>Additional characteristic/information</u>: uncoated <p><i>Note: Information to be provided until level 2.</i></p> <p><u>Summary:</u></p> <ul style="list-style-type: none"> • Stone, plaster, and cement > stone (massive) <ul style="list-style-type: none"> - uncoated

Category	Examples
9. Textile fibres and other fibres	<p>Black yarn for hand knitting (e.g. CN 5511 10 00)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Textile fibres and other fibres <ul style="list-style-type: none"> ○ <u>Subcategory (level 2)</u>: acrylic* - <u>Additional characteristic/information</u>: coloured - <u>Additional characteristic/information</u>: impregnated or treated (other additive chemical treatment) <p><i>* Fibre formed of linear macromolecules comprising at least 85 % (by mass) in the chain of the acrylonitrilic pattern (Table 2 of Annex I to Regulation (EU) No 1007/2011)</i></p> <p><i>Note: Information to be provided until level 2.</i></p> <p><u>Summary:</u></p> <ul style="list-style-type: none"> • Textile fibres and other fibres > acrylic <ul style="list-style-type: none"> - coloured - impregnated or treated (other additive chemical treatment)
10. Wood and cork	<p>Office desk table top (e.g. CN 9403 90 30)</p> <ul style="list-style-type: none"> • <u>Category (level 1)</u>: Wood and cork <ul style="list-style-type: none"> ○ <u>Subcategory (level 2)</u>: wood (massive) - <u>Additional characteristic/information</u>: coated - <u>Additional characteristic/information</u>: impregnated or treated (other additive chemical treatment) <p><i>Note: Information to be provided until level 2.</i></p> <p><u>Summary:</u></p> <ul style="list-style-type: none"> • Wood and cork > wood (massive) <ul style="list-style-type: none"> - coated - impregnated or treated (other additive chemical treatment)

4. Identifying composite materials

For articles made of composite or hybrid materials, it is not recommended to use Category 11 'Other'. These materials are recommended to be reported by identifying the individual basic materials that make part of their composition using the material categories and subcategories in Tables 1 to 11 (section 1) and by indicating the additional information "composite material" in Table 12 (section 2). Examples for reporting composite materials are shown below.

Example 1: Particleboard panel (e.g. CN 4410 11 90)

From Table 10:

- Category (level 1): Wood and cork
 - Subcategory (level 2): chipwood

From Table 12:

- Additional characteristic/information: impregnated or treated (other additive chemical treatment)
- Additional characteristic/information: **composite material**

From Table 6:

- Category (level 1): Plastic (and polymers)
 - Subcategory (level 2): urea and thiourea resins

From Table 12:

- Additional characteristic/information: thermoset
- Additional characteristic/information: impregnated or treated (other additive chemical treatment)
- Additional characteristic/information: **composite material**

Note: Information to be provided until level 2 from Tables 6 and 10.

Summary:

- **Wood and cork > chipwood**
 - impregnated or treated (other additive chemical treatment)
 - **composite material**
- **Plastic (and polymers) > urea and thiourea resins**
 - thermoset
 - impregnated or treated (other additive chemical treatment)
 - **composite material**

Example 2: Crash helmet (reinforced) shell (e.g. CN 3926 90 97 (90), 6506 10 80) (shell body only; skeleton, liners and other components not considered in this example)

From Table 6:

- Category (level 1): Plastic (and polymers)
 - Subcategory (level 2): epoxy resin

(Note: Information to be provided until level 2).

From Table 12:

- Additional characteristic/information: thermoset

- Additional characteristic/information: coated
- Additional characteristic/information: coloured
- Additional characteristic/information: **composite material**

From Table 2:

- Category (level 1): Glass
 - Subcategory (level 2): other special glass

(Note: Classification to be provided until level 2. Information under level 3 to be provided only if available to the submitter).

From Table 12:

- Additional characteristic/information: fibres
- Additional characteristic/information: **composite material**

Summary:

- **Plastic (and polymers) > epoxy resin**
 - thermoset
 - coated
 - coloured
 - **composite material**
- **Glass > other special glass**
 - fibres
 - **composite material**