

# CPC COOPERATIVE PATENT CLASSIFICATION

## D TEXTILES; PAPER

### TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

#### D10 INDEXING SCHEME ASSOCIATED WITH SUBLASSES OF SECTION [D](#), RELATING TO TEXTILES

#### D10B INDEXING SCHEME ASSOCIATED WITH SUBLASSES OF SECTION [D](#), RELATING TO TEXTILES

##### NOTES

1. This subclass constitutes a scheme for indexing only.
2. The indexing codes of this subclass, relating to the chemical constitution of the fibrous materials, are to be associated with groups of section [D](#), with the exception of those of subclass [D06M](#), as far as these groups themselves do not give information about the chemical nature of the fibres.
3. In a number of fields, the indexing codes relating to the chemical constitution of the fibrous materials are not allotted to documents having an abstract in which the chemical constitution is clearly stated, e.g. if the abstract mentions "polyamide", code [D10B 2331/021](#) is not allotted.
4. Blends of fibres are indexed according to each constituent fibre.

##### **2101/00 Inorganic fibres**

- 2101/02 . based on oxides or oxide ceramics, e.g. silicates
- 2101/04 . . Asbestos
- 2101/06 . . Glass
- 2101/08 . . Ceramic
- 2101/10 . based on non-oxides other than metals
- 2101/12 . . Carbon; Pitch
- 2101/122 . . . Nanocarbons
- 2101/14 . . Carbides; Nitrides; Silicides; Borides
- 2101/16 . . . Silicon carbide
- 2101/20 . Metallic fibres

##### **2201/00 Cellulose-based fibres, e.g. vegetable fibres**

- 2201/01 . Natural vegetable fibres
- 2201/02 . . Cotton
- 2201/04 . . Linen
- 2201/06 . . Jute
- 2201/08 . . Ramie
- 2201/10 . . Bamboo
- 2201/20 . Cellulose-derived artificial fibres
- 2201/22 . . made from cellulose solutions
- 2201/24 . . . Viscose
- 2201/26 . . Nitrocellulose
- 2201/28 . . Cellulose esters or ethers, e.g. cellulose acetate
- 2201/30 . . . Ethers, e.g. CMC

##### **2211/00 Protein-based fibres, e.g. animal fibres**

- 2211/01 . Natural animal fibres, e.g. keratin fibres
- 2211/02 . . Wool
- 2211/04 . . Silk
- 2211/06 . . Collagen fibres
- 2211/20 . Protein-derived artificial fibres
- 2211/22 . . Fibroin
- 2211/24 . . Casein
- 2211/26 . . Globulin, e.g. groundnut protein

##### **2321/00 Fibres made from polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds**

- 2321/02 . polyolefins
- 2321/021 . . polyethylene
- 2321/0211 . . . high-strength or high-molecular-weight polyethylene, e.g. ultra-high molecular weight polyethylene [UHMWPE]
- 2321/022 . . polypropylene
- 2321/04 . polymers of halogenated hydrocarbons
- 2321/041 . . polyvinyl chloride or polyvinylidene chloride
- 2321/042 . . polymers of fluorinated hydrocarbons, e.g. polytetrafluoroethene [PTFE]
- 2321/06 . polymers of unsaturated alcohols, e.g. polyvinyl alcohol, or of their acetals or ketals
- 2321/08 . polymers of unsaturated carboxylic acids or unsaturated organic esters, e.g. polyacrylic esters, polyvinyl acetate
- 2321/10 . polymers of unsaturated nitriles, e.g. polyacrylonitrile, polyvinylidene cyanide
- 2321/101 . . modacrylic
- 2321/12 . polymers of cyclic compounds with one carbon-to-carbon double bond in the side chain
- 2321/121 . . polystyrene

##### **2331/00 Fibres made from polymers obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polycondensation products**

- 2331/02 . polyamides ([D10B 2331/08 takes precedence](#))
- 2331/021 . . aromatic polyamides, e.g. aramides
- 2331/04 . polyesters, e.g. polyethylene terephthalate [PET]
- 2331/041 . . derived from hydroxy-carboxylic acids, e.g. lactones
- 2331/042 . . aromatic polyesters, e.g. vectran
- 2331/06 . polyethers
- 2331/061 . . polyetherketones, polyetheretherketones, e.g. PEEK
- 2331/08 . polyamino acids or polypeptides

2331/10	polyurethanes	2403/0223	with apertures, e.g. with one or more mesh fabric plies
2331/12	polyureas	2403/023	Fabric with at least two, predominantly unlinked, knitted or woven plies interlaced with each other at spaced locations or linked to a common internal co-extensive yarn system
2331/14	polycondensates of cyclic compounds, e.g. polyimides, polybenzimidazoles	2403/0231	including contracting yarn, e.g. blister fabrics
2331/30	polycondensation products not covered by indexing codes <a href="#">D10B 2331/02</a> - <a href="#">D10B 2331/14</a>	2403/024	Fabric incorporating additional compounds
2331/301	polyarylene sulfides, e.g. polyphenylenesulfide	2403/0241	enhancing mechanical properties
<b>2401/00</b>	<b>Physical properties</b>	2403/02411	with a single array of unbent yarn, e.g. unidirectional reinforcement fabrics
2401/02	Moisture-responsive characteristics	2403/02412	including several arrays of unbent yarn, e.g. multiaxial fabrics
2401/021	hydrophobic	2403/0242	enhancing chemical properties
2401/022	hydrophilic	2403/02421	containing particulate matter, e.g. powder or granulate
2401/024	soluble	2403/0243	enhancing functional properties
2401/04	Heat-responsive characteristics	2403/02431	with electronic components, e.g. sensors or switches
2401/041	thermoplastic; thermosetting	2403/03	Shape features
2401/046	Shape recovering or form memory	2403/031	Narrow fabric of constant width
2401/06	Load-responsive characteristics	2403/0311	Small thickness fabric, e.g. ribbons, tapes or straps
2401/061	elastic	2403/0312	Bulk fabric, e.g. belts
2401/062	stiff, shape retention	2403/032	Flat fabric of variable width, e.g. including one or more fashioned panels
2401/063	high strength	2403/033	Three dimensional fabric, e.g. forming or comprising cavities in or protrusions from the basic planar configuration, or deviations from the cylindrical shape as generally imposed by the fabric forming process
2401/08	foamed	2403/0331	with one or more convex or concave portions of limited extension, e.g. domes or pouches
2401/10	porous	2403/0332	with gussets folding into three dimensional shape, e.g. seat covers
2401/12	biodegradable	2403/0333	with tubular portions of variable diameter or distinct axial orientation
2401/13	anti-allergenic or anti-bacterial	<b>2501/00</b>	<b>Wearing apparel</b>
2401/14	Dyeability	2501/02	Underwear
2401/16	antistatic; conductive	2501/021	Hosiery; Panti-hose
2401/18	including electronic components	2501/04	Outerwear; Protective garments
2401/20	optical	2501/041	Gloves
2401/22	protective against sunlight or UV radiation	2501/042	Headwear
<b>2403/00</b>	<b>Details of fabric structure established in the fabric forming process</b>	2501/043	Footwear
2403/01	Surface features	2501/044	Fur garments; Garments of fur substitutes
2403/011	Dissimilar front and back faces	2501/045	Neckties
2403/0111	One hairy surface, e.g. napped or raised (for pile fabrics <a href="#">D03D 27/00</a> , <a href="#">D04B 1/02</a> , <a href="#">D04B 21/02</a> )	2501/06	Details of garments
2403/0112	One smooth surface, e.g. laminated or coated	2501/061	Piped openings (pockets)
2403/0113	One surface including hollow piping or integrated straps, e.g. for inserts or mountings	2501/062	Buttonholes
2403/0114	with one or more yarns appearing predominantly on one face, e.g. plated or paralleled yarns (for pile fabrics <a href="#">D03D 27/00</a> , <a href="#">D04B 1/02</a> , <a href="#">D04B 21/02</a> ; for intarsia fabrics <a href="#">D04B 1/126</a> )	2501/063	Fasteners
2403/012	Alike front and back faces	2501/0631	Slide fasteners
2403/0121	Two hairy surfaces, e.g. napped or raised (for pile fabrics <a href="#">D03D 27/00</a> , <a href="#">D04B 1/02</a> , <a href="#">D04B 21/02</a> )	2501/0632	of the touch-and-close type
2403/0122	Smooth surfaces, e.g. laminated or coated	<b>2503/00</b>	<b>Domestic or personal</b>
2403/0123	Both surfaces including hollow piping or integrated straps, e.g. for inserts or mountings	2503/02	Curtains
2403/02	Cross-sectional features (for three-dimensional features <a href="#">D10B 2403/033</a> )	2503/03	Inside roller shades or blinds
2403/021	Lofty fabric with equidistantly spaced front and back plies, e.g. spacer fabrics	2503/04	Floor or wall coverings; Carpets
2403/0211	with corrugated plies	2503/041	Carpet backings
2403/0212	with baggy or puckered plies	2503/042	Primary backings for tufted carpets
2403/0213	with apertures, e.g. with one or more mesh fabric plies	2503/06	Bed linen
2403/022	Lofty fabric with variably spaced front and back plies, e.g. spacer fabrics	2503/062	Fitted bedsheets
2403/0221	with at least one corrugated ply	2503/08	Wigs
2403/0222	with at least one baggy or puckered ply		

## D10B

2503/10 . Umbrellas

### **2505/00 Industrial**

2505/02 . Reinforcing materials; Prepregs

2505/022 . . for tyres

2505/04 . Filters

2505/06 . Packings, gaskets, seals

2505/08 . Upholstery, mattresses

2505/10 . Packaging, e.g. bags

2505/12 . Vehicles ([D10B 2505/08 takes precedence](#))

2505/122 . . Safety belts

2505/124 . . Air bags

2505/18 . Outdoor fabrics, e.g. tents, tarpaulins  
([D10B 2507/00 takes precedence](#))

2505/20 . for civil engineering, e.g. geotextiles

2505/202 . . Artificial grass

2505/204 . . Geotextiles

### **2507/00 Sport; Military**

2507/02 . Nets

2507/04 . Sails

2507/06 . Parachutes

2507/08 . Balls

2507/10 . Balloons

### **2509/00 Medical; Hygiene**

2509/02 . Bandages, dressings or absorbent pads

2509/022 . . Wound dressings

2509/024 . . Stiffening bandages, e.g. with plaster of Paris

2509/026 . . Absorbent pads; Tampons; Laundry; Towels

2509/028 . . Elastic support stockings or elastic bandages

2509/04 . Sutures

2509/06 . Vascular grafts; stents

2509/08 . Hernia repair mesh