

# 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. dyneema, spectra
- 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

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

## 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