

**CPC****COOPERATIVE PATENT CLASSIFICATION****D06P**

**DYEING OR PRINTING TEXTILES; DYEING LEATHER, FURS, OR SOLID MACROMOLECULAR SUBSTANCES IN ANY FORM** (for mechanical matters, see [B41F](#) , [D06B](#) , [D06C](#) ; printing on surfaces of materials other than textiles [B41M](#) ; surface treatment of fibres or filaments from glass, mineral, or slags [C03C 25/00](#); mordanting [D06M](#) ; dyeing paper [D21H](#) )

**WARNING**

The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

[D06P 3/84](#) covered by [D06P 3/82](#) [D06P 3/85](#) " " [D06P 3/82](#) [D06P 3/852](#) " " [D06P 3/82](#) [D06P 3/86](#) " " [D06P 3/82](#) [D06P 3/87](#) " " [D06P 3/82](#) [D06P 3/872](#) " " [D06P 3/82](#) [D06P 3/874](#) " " [D06P 3/82](#) [D06P 5/24](#) to [D06P 5/28](#) " " [D06P 5/003](#) and s.gr.

**Guidance heading:****D06P 1/00**

**General processes of dyeing or printing textiles, or general processes of dyeing leather, furs, or solid macromolecular substances in any form, classified according to the dyes, pigments, or auxiliary substances employed**

- [D06P 1/0004](#) . {General aspects of dyeing }
- [D06P 1/0008](#) . . {Dyeing processes in which the dye is not specific (waste liquors) }
- [D06P 1/0012](#) . . {Effecting dyeing to obtain luminescent or phosphorescent dyeings }
- [D06P 1/0016](#) . . {Dye baths containing a dyeing agent in a special form such as for instance in melted or solid form, as a floating film or gel, spray or aerosol, or atomised dyes }
- [D06P 1/002](#) . . {Processing by repeated dyeing, e.g. in different baths }
- [D06P 1/0024](#) . {Dyeing and bleaching in one process }
- [D06P 1/0028](#) . {Dyeing with a coacervate system }
- [D06P 1/0032](#) . {Determining dye recipes and dyeing parameters; Colour matching or monitoring }
- [D06P 1/0036](#) . {Dyeing and sizing in one process }
- [D06P 1/004](#) . {Dyeing with phototropic dyes; Obtaining camouflage effects }
- [D06P 1/0044](#) . {Dyeing with a dye in volatilised form }
- [D06P 1/0048](#) . {Converting dyes in situ in a non-appropriate form by hydrolysis, saponification, reduction with split-off of a substituent }
- [D06P 1/0052](#) . {Dyeing with polymeric dyes }

- D06P 1/0056 . {Dyeing with polymeric dyes involving building the polymeric dyes on the fibres (dyes per se [C09B](#) ) }
- D06P 1/006 .. {by using dyes with polymerisable groups, e.g. dye  $\text{---CH=CH}_2$  }
- D06P 1/0064 .. {by using reactive polyfunctional compounds, e.g. crosslinkers }
- D06P 1/0068 ... {Non-heterocyclic compounds }
- D06P 1/0072 ... {Heterocyclic compounds }
- D06P 1/0076 . {Dyeing with mineral dye }
- D06P 1/008 . {Preparing dyes in situ ([D06P 1/12](#), [D06P 1/145](#) take precedence) }
- D06P 2001/0084 . Non-aqueous dyeing in an inorganic medium
- D06P 2001/0088 . Aqueous dyeing characterised by a short bath ratio
- D06P 2001/0092 .. Foam dyeing
- D06P 1/0096 . {Multicolour dyeing }
- D06P 1/02 . using azo dyes ([D06P 1/18](#), [D06P 1/38](#), [D06P 1/39](#), [D06P 1/41](#) take precedence)
- D06P 1/04 .. not containing metal
- D06P 1/06 ... containing acid groups
- D06P 1/08 ... cationic azo dyes
- D06P 1/10 .. containing metal
- D06P 1/12 .. prepared in situ
- D06P 1/122 ... {the textile material containing one component }
- D06P 1/125 ... {one or both of the components having fibre-reactive groups }
- D06P 1/127 ... {using a stabilised diazo component, e.g. diazoamino, anti-diazotate or nitrosamine  $\text{R-N=N-OK}$ , diazosulfonate, hydrazinesulfonate,  $\text{R-N=N-N-CN}$  }
- D06P 1/13 . using azomethine dyes
- D06P 1/14 . using phthalocyanine dyes without vatting ([D06P 1/38](#), [D06P 1/40](#) take precedence)
- D06P 1/145 .. {using phthalocyanine dyes prepared in situ }
- D06P 1/16 . using dispersed, e.g. acetate, dyestuffs
- D06P 1/18 .. Azo dyes
- D06P 1/19 .. Nitro dyes
- D06P 1/20 .. Anthraquinone dyes
- D06P 1/22 . using vat dyestuffs {including indigo }
- D06P 1/221 .. {Reducing systems; Reducing catalysts }
- D06P 1/222 .. {Oxidising agents }
- D06P 1/224 .. {using vat dyes in unreduced pigment state }
- D06P 1/225 .. {using acid vat method }
- D06P 1/227 .. {Specific dyes not provided for in groups [D06P 1/228](#) to [D06P 1/28](#) }
- D06P 1/228 .. {Indigo }

- D06P 1/24           ..     Anthraquinone dyes {or anthracene nucleus containing vat dyes }
- D06P 1/26           ..     Phthalocyanine dyes
- D06P 1/28           ..     Esters of vat dyestuffs
  
- D06P 1/30           .     using sulfur dyes
- D06P 1/305          ..     {SO<sub>3</sub>H-groups containing dyes }
  
- D06P 1/32           .     using oxidation dyes
  
- D06P 1/34           .     using natural dyestuffs
  
- D06P 1/36           .     using mordant dyes; {using metallisable dyes }
  
- D06P 1/38           .     using reactive dyes
- D06P 1/382          ..     reactive group directly attached to heterocyclic group
- D06P 1/384          ..     reactive group not directly attached to heterocyclic group
  
- D06P 1/39           .     using acid dyes
- D06P 1/40           ..     using acid dyes without azo groups
  
- D06P 1/41           .     using basic dyes
- D06P 1/42           ..     using basic dyes without azo groups
  
- D06P 1/44           .     using insoluble pigments or auxiliary substances, e.g. binders
- D06P 1/445          ..     {Use of auxiliary substances before, during or after dyeing or printing }
- D06P 1/46           ..     using compositions containing natural macromolecular substances or derivatives thereof
  
- D06P 1/48           ...     Derivatives of carbohydrates
- D06P 1/50           ....    Derivatives of cellulose
- D06P 1/52           ..     using compositions containing synthetic macromolecular substances ([D06P 1/60](#) takes precedence)
- D06P 1/5207        ...     {Macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds }
- D06P 1/5214        ....    {Polymers of unsaturated compounds containing no COOH groups or functional derivatives thereof }
- D06P 1/5221        .....    {Polymers of unsaturated hydrocarbons, e.g. polystyrene polyalkylene }
- D06P 1/5228        .....    {Polyalkenyl alcohols e.g. PVA }
- D06P 1/5235        .....    {Polyalkenyl halides, e.g. PVC }
- D06P 1/5242        .....    {Polymers of unsaturated N-containing compounds }
- D06P 1/525         ....    {Polymers of unsaturated carboxylic acids or functional derivatives thereof }
- D06P 1/5257        .....    {(Meth)acrylic acid }
- D06P 1/5264        ...     {Macromolecular compounds obtained otherwise than by reactions involving only unsaturated carbon-to-carbon bonds }
- D06P 1/5271        ....    {Polyesters; Polycarbonates; Alkyd resins }
- D06P 1/5278        ....    {Polyamides; Polyimides; Polylactames; Polyalkyleneimines }
- D06P 1/5285        ....    {Polyurethanes; Polyurea; Polyguanides }
- D06P 1/5292        ....    {containing Si-atoms }

D06P 1/54	...	Substances with reactive groups together with crosslinking agents
D06P 1/56	...	Condensation products or precondensation products prepared with aldehydes
D06P 1/58	....	together with other synthetic macromolecular substances
D06P 1/60	..	using compositions containing polyethers
D06P 1/607	...	Nitrogen-containing polyethers {or their quaternary derivatives }
D06P 1/6073	....	{containing CON=, OCON=, SO <sub>2</sub> N=, OSO <sub>2</sub> N= groups }
D06P 1/6076	....	{addition products of amines and alkylene oxides or oxiranes }
D06P 1/613	...	Polyethers without nitrogen
D06P 1/6131	....	{Addition products of hydroxyl groups-containing compounds with oxiranes }
D06P 1/6133	.....	{from araliphatic or aliphatic alcohols }
D06P 1/6135	.....	{from aromatic alcohols or from phenols, naphthols }
D06P 1/6136	....	{Condensation products of esters, acids, oils, oxyacids with oxiranes }
D06P 1/6138	....	{Polymerisation products of glycols, e.g. Carbowax, Pluronic }
D06P 1/62	..	using compositions containing low-molecular-weight organic compounds with sulfate, sulfonate, {sulfenic or sulfinic } groups
D06P 1/621	...	{Compounds without nitrogen }
D06P 1/622	....	{Sulfonic acids or their salts }
D06P 1/623	.....	{Aliphatic, araliphatic or cycloaliphatic }
D06P 1/625	.....	{Aromatic }
D06P 1/626	.....	{Sulfocarboxylic acids }
D06P 1/627	....	{Sulfates }
D06P 1/628	...	{Compounds containing nitrogen }
D06P 1/64	..	using compositions containing low-molecular-weight organic compounds without sulfate or sulfonate groups
D06P 1/642	...	Compounds containing nitrogen
D06P 1/6421	....	{Compounds containing nitrile groups }
D06P 1/6422	....	{Compounds containing nitro or nitroso groups }
D06P 1/6423	....	{Compounds containing azide or oxime groups }
D06P 1/6424	....	{Compounds containing isocyanate or isothiocyanate groups }
D06P 1/6425	....	{Compounds containing hydrazine or azo groups }
D06P 1/6426	....	{Heterocyclic compounds }
D06P 1/6427	....	{Compounds containing sulfonamide groups }
D06P 1/6428	....	{Compounds containing aminoxide groups }
D06P 1/6429	....	{bound to a six-membered aromatic carbocyclic ring }
D06P 1/645	....	Aliphatic, araliphatic or cycloaliphatic compounds containing amino groups
D06P 1/647	....	Nitrogen-containing carboxylic acids or their salts
D06P 1/649	....	Compounds containing carbonamide, thiocarbonamide or guanyl groups
D06P 1/6491	.....	{(Thio)urea or (cyclic) derivatives }
D06P 1/6492	.....	{(Thio)urethanes; (Di)(thio)carbamic acid derivatives; Thiuramdisulfide }
D06P 1/6493	.....	{Carbodiimides (=N=C=N=) }
D06P 1/6494	.....	{Compounds containing a guanyl group R-C-N= e.g. (bi)guanidine, dicyandiamid amidines }
D06P 1/6495	.....	{Compounds containing carbonamide -RCON= (R=H or hydrocarbons) }

D06P 1/6496	.....	{Condensation products from carboxylic acids and hydroxyalkyl amine (Kritchewski bases) }
D06P 1/6497	.....	{Amides of di- or polyamines; Acylated polyamines }
D06P 1/6498	.....	{Compounds containing -CONCO-, e.g. phthalimides, hydantoine; Compounds containing RCONHSO <sub>2</sub> R (R=H or hydrocarbon) }
D06P 1/651	...	Compounds without nitrogen
D06P 1/65106	....	{Oxygen-containing compounds }
D06P 1/65112	.....	{Compounds containing aldehyde or ketone groups }
D06P 1/65118	.....	{Compounds containing hydroxyl groups }
D06P 1/65125	.....	{Compounds containing ester groups }
D06P 1/65131	.....	{Compounds containing ether or acetal groups }
D06P 1/65137	.....	{Compounds containing peroxide or ozonide groups }
D06P 1/65143	.....	{Compounds containing acid anhydride or acid halide groups }
D06P 1/6515	....	{Hydrocarbons }
D06P 1/65156	.....	{Halogen-containing hydrocarbons }
D06P 1/65162	.....	{Hydrocarbons without halogen }
D06P 1/65168	....	{Sulfur-containing compounds }
D06P 1/65175	.....	{Compounds containing thioaldehyde or thiocetone groups }
D06P 1/65181	.....	{Compounds containing thiol groups }
D06P 1/65187	.....	{Compounds containing sulfide or disulfide groups }
D06P 1/65193	.....	{Compounds containing sulfite or sulfone groups }
D06P 1/653	..	Nitrogen-free carboxylic acids or their salts { (sulfocarboxylic acids <a href="#">D06P 1/626</a> ) }
D06P 1/6533	...	{Aliphatic, araliphatic or cycloaliphatic }
D06P 1/6536	...	{Aromatic }
D06P 1/655	..	Compounds containing ammonium groups
D06P 1/6553	...	{Compounds containing sulfonium groups }
D06P 1/6556	...	{Compounds containing phosphonium groups }
D06P 1/66	...	containing quaternary ammonium groups
D06P 1/667	..	Organo-phosphorus compounds
D06P 1/673	..	Inorganic compounds
D06P 1/67308	...	{Hydroxylamine or derivatives thereof }
D06P 1/67316	...	{Acids }
D06P 1/67325	....	{Complex acids, e.g. phosphomolybdic, phosphotungstic, molybdotungstic }
D06P 1/67333	...	{Salts or hydroxides (hydroxylamines <a href="#">D06P 1/67308</a> ) }
D06P 1/67341	....	{ of elements different from the alkaline or alkaline-earth metals or with anions containing those elements ( <a href="#">D06P 1/67383</a> takes precedence) }
D06P 1/6735	....	{ of alkaline or alkaline-earth metals with anions different from those provided for in <a href="#">D06P 1/67341</a> }
D06P 1/67358	.....	{Halides or oxyhalides }
D06P 1/67366	.....	{Phosphates or polyphosphates }
D06P 1/67375	.....	{with sulfur-containing anions (sulfates <a href="#">D06P 1/6735</a> ) }
D06P 1/67383	...	{containing silicon }
D06P 1/67391	...	{Salts or oxidising-compounds mixtures }

- D06P 1/81 . using dyes dissolved in inorganic solvents
- D06P 1/90 . using dyes dissolved in organic solvents or aqueous emulsions thereof { [\(D06P 1/94 takes precedence\)](#) }
- D06P 2001/901 .. Hydrocarbons
- D06P 2001/903 ... Halogenated hydrocarbons
- D06P 2001/905 ... Non-halogenated hydrocarbons
- D06P 2001/906 .. Solvents other than hydrocarbons
- D06P 1/908 .. {using specified dyes }
- D06P 1/92 .. in organic solvents
- D06P 1/922 ... {hydrocarbons }
- D06P 1/924 .... {Halogenated hydrocarbons }
- D06P 1/926 .... {Non-halogenated hydrocarbons }
- D06P 1/928 ... {Solvents other than hydrocarbons }
- D06P 1/94 . using dyes dissolved in solvents which are in the supercritical state
- D06P 1/96 . Dyeing characterised by a short bath ratio
- D06P 1/965 .. {Foam dyeing (mechanical features [D06B 19/0094](#)) }
- D06P 3/00** **Special processes of dyeing or printing textiles, or dyeing leather, furs, or solid macromolecular substances in any form, classified according to the material treated**
- D06P 3/001 . {using acid dyes }
- D06P 3/002 . {using basic dyes }
- D06P 3/003 . {using vat or sulfur dyes }
- D06P 3/004 . {using dispersed dyes }
- D06P 3/005 . {using metallisable or mordant dyes }
- D06P 3/006 . {using polymeric dyes }
- D06P 3/007 . {preparing dyes in situ }
- D06P 3/008 . {using reactive dyes }
- D06P 3/02 . material containing basic nitrogen
- D06P 3/021 .. {using acid dyes }
- D06P 3/022 .. {using basic dyes }
- D06P 3/023 .. {using vat or sulfur dyes }
- D06P 3/024 .. {using dispersed dyes }
- D06P 3/025 .. {using metallised dyes }
- D06P 3/026 .. {using polymeric dyes }

D06P 3/027	..	{preparing dyes in situ }
D06P 3/028	..	{using reactive dyes }
D06P 3/04	..	containing amide groups
D06P 3/041	...	{using basic dyes }
D06P 3/042	...	{using vat or sulfur dyes }
D06P 3/043	...	{using dispersed dyes }
D06P 3/045	...	{dyeing and degumming silk }
D06P 3/046	...	{using metallisable or mordant dyes }
D06P 3/047	...	{using polymeric dyes }
D06P 3/048	...	{preparing non-azo dyes on the material }
D06P 3/06	...	using acid dyes
D06P 3/08	...	using oxidation dyes
D06P 3/10	...	using reactive dyes
D06P 3/12	...	preparing azo dyes on the material
D06P 3/14	...	wool
D06P 3/141	....	{using vat or sulfur dyes }
D06P 3/143	....	{using dispersed dyes }
D06P 3/145	....	{using polymeric dyes }
D06P 3/146	....	{preparing non-azo dyes on the material }
D06P 3/148	....	{using reactive dyes }
D06P 3/16	....	using acid dyes
D06P 3/18	....	using basic dyes
D06P 3/20	....	using mordant dyes {using metallisable dyes }
D06P 3/22	....	preparing azo dyes on the fibre
D06P 3/24	...	polyamides; polyurethanes
D06P 3/241	....	{using acid dyes }
D06P 3/242	....	{using basic dyes }
D06P 3/243	....	{using vat or sulfur dyes, indigo }
D06P 3/245	....	{using metallisable or mordant dyes }
D06P 3/246	....	{using polymeric dyes }
D06P 3/247	....	{preparing non-azo dyes on the material }
D06P 3/248	....	{using reactive dyes }
D06P 3/26	....	using dispersed dyestuffs
D06P 3/28	....	preparing azo dyes on the material
D06P 3/30	...	furs {feathers, dead hair, furskins, pelts }
D06P 3/3008	....	{using acid dyes }
D06P 3/3016	.....	{using monazo acid dyes }
D06P 3/3025	.....	{dis-polyazo acid dyes }
D06P 3/3033	....	{using basic dyes }
D06P 3/3041	....	{using vat, sulfur or indigo dyes }
D06P 3/305	....	{with oxidation dyes }
D06P 3/3058	....	{using metallisable or mordant dyes }

D06P 3/3066	....	{using polymeric dyes }
D06P 3/3075	....	{preparing azo dyes on the material }
D06P 3/3083	....	{preparing non-azo dyes on the material }
D06P 3/3091	....	{using reactive dyes }
D06P 3/32	...	leather {skins }
D06P 3/3206	....	{using acid dyes }
D06P 3/3213	.....	{monoazo }
D06P 3/322	.....	{using monoazo premetallised dyes }
D06P 3/3226	.....	{dis-polyazo }
D06P 3/3233	.....	{using dis-polyazo premetallised dyes }
D06P 3/324	....	{using basic dyes }
D06P 3/3246	....	{using vat, sulfur or indigo dyes }
D06P 3/3253	....	{using oxidation dyes }
D06P 3/326	....	{using metallisable or mordant dyes }
D06P 3/3266	....	{using polymeric dyes }
D06P 3/3273	....	{preparing azo dyes on the material }
D06P 3/328	....	{preparing non-azo dyes on the material }
D06P 3/3286	....	{using reactive dyes }
D06P 3/3293	....	{mineral dyeing }
D06P 3/34	.	material containing ester groups ( <a href="#">D06P 3/04</a> takes precedence)
D06P 3/341	..	{using acid dyes }
D06P 3/342	..	{using basic dyes }
D06P 3/343	..	{using vat or sulfur dyes }
D06P 3/345	..	{using metallisable or mordant dyes }
D06P 3/346	..	{using polymeric dyes }
D06P 3/347	..	{preparing non-azo dyes on the material }
D06P 3/348	..	{using reactive dyes }
D06P 3/36	..	using dispersed dyestuffs
D06P 3/38	..	preparing azo dyes on the material
D06P 3/40	..	cellulose acetate
D06P 3/401	...	{using acid dyes }
D06P 3/402	...	{using basic dyes }
D06P 3/403	...	{using vat or sulfur dyes }
D06P 3/405	...	{using metallisable or mordant dyes }
D06P 3/406	...	{using polymeric dyes }
D06P 3/407	...	{preparing non-azo dyes on the material }
D06P 3/408	...	{using reactive dyes }
D06P 3/42	...	using dispersed dyestuffs
D06P 3/44	...	preparing azo dyes on the material
D06P 3/46	...	cellulose triacetate
D06P 3/461	....	{using acid dyes }



D06P 3/462	....	{using basic dyes }
D06P 3/463	....	{using vat or sulfur dyes }
D06P 3/465	....	{using metallisable or mordant dyes }
D06P 3/466	....	{using polymeric dyes }
D06P 3/467	....	{preparing non-azo dyes on the material }
D06P 3/468	....	{using reactive dyes }
D06P 3/48	....	using dispersed dyestuffs
D06P 3/50	....	preparing azo dyes on the material
D06P 3/52	..	polyesters
D06P 3/521	...	{using acid dyes }
D06P 3/522	...	{using basic dyes }
D06P 3/523	...	{using vat or sulfur dyes }
D06P 3/525	...	{using metallisable or mordant dyes }
D06P 3/526	...	{using polymeric dyes }
D06P 3/527	...	{preparing non-azo dyes on the material }
D06P 3/528	...	{using reactive dyes }
D06P 3/54	...	using dispersed dyestuffs
D06P 3/56	...	preparing azo dyes on the material
D06P 3/58	.	material containing hydroxyl groups
D06P 3/60	..	natural or regenerated cellulose
D06P 3/6008	...	{using acid dyes }
D06P 3/6016	...	{using basic dyes }
D06P 3/6025	...	{using vat or sulfur dyes }
D06P 3/6033	...	{using dispersed dyes }
D06P 3/6041	....	{using specified dyes }
D06P 3/605	...	{dyeing with polymeric dyes; building polymeric dyes on fibre (dyes per se <a href="#">C09B</a> ) }
D06P 3/6058	....	{by using dyes with polymerisable groups e.g. dye $\text{---CH=CH}_2$ }
D06P 3/6066	....	{by using reactive polyfunctional compounds e.g. crosslinkers }
D06P 3/6075	.....	{non-heterocyclic compounds }
D06P 3/6083	.....	{heterocyclic compounds }
D06P 3/6091	...	{preparing non-azo dyes on the material }
D06P 3/62	...	using direct dyes
D06P 3/64	...	using mordant dyes {or metallisable dyes }
D06P 3/66	...	using reactive dyes
D06P 3/663	....	{reactive group directly attached to heterocyclic group }
D06P 3/666	....	{reactive group not directly attached to heterocyclic group }
D06P 3/68	...	preparing azo dyes on the material
D06P 3/685	....	{one or both components having fibre-reactive group }
D06P 3/70	.	material containing nitrile groups
D06P 3/701	..	{using vat or sulfur dyes }

- D06P 3/702 .. {dyeing of material in the gel state }
- D06P 3/704 .. {using metallisable or mordant dyes or dyeing by cupro-ionic method }
- D06P 3/705 .. {using polymeric dyes }
- D06P 3/707 .. {preparing non-azo dyes on the material }
- D06P 3/708 .. {using reactive dyes }
- D06P 3/72 .. using dispersed dyestuffs
- D06P 3/74 .. using acid dyes
- D06P 3/76 .. using basic dyes
- D06P 3/78 .. preparing azo dyes on the material
  
- D06P 3/79 . polyolefins
- D06P 3/791 .. {using acid dyes }
- D06P 3/792 .. {using basic dyes }
- D06P 3/793 .. {using vat or sulfur dyes }
- D06P 3/794 .. {using dispersed dyes }
- D06P 3/795 .. {using metallisable or mordant dyes, dyeing premetallised fibres }
- D06P 3/796 .. {using polymeric dyes }
- D06P 3/797 .. {preparing non-azo dyes on the material }
- D06P 3/798 .. {using reactive dyes }
- D06P 3/799 .. {preparing azo dyes on the material }
  
- D06P 3/80 . inorganic fibres ([surface treatment of fibres or filaments from glass, minerals or slags C03C 25/00](#))
  
- D06P 3/82 . textiles which contain different kinds of fibres
- D06P 3/8204 .. {fibres of different chemical nature }
- D06P 3/8209 ... {mixtures of fibres containing amide groups }
- D06P 3/8214 ... {mixtures of fibres containing ester and amide groups }
- D06P 3/8219 ... {mixtures of fibres containing hydroxyl and amide groups }
- D06P 3/8223 ... {mixtures of fibres containing hydroxyl and ester groups }
- D06P 3/8228 .... {using one kind of dye }
- D06P 3/8233 ..... {using dispersed dyes }
- D06P 3/8238 .... {using different kinds of dye }
- D06P 3/8242 ..... {using dispersed and acid dyes }
- D06P 3/8247 ..... {using dispersed and vat, sulfur or indigo dyes }
- D06P 3/8252 ..... {using dispersed and reactive dyes }
- D06P 3/8257 ..... {using dispersed and azo dyes prepared in situ }
- D06P 3/8261 ... {mixtures of fibres containing nitrile groups }
- D06P 3/8266 ... {mixtures of fibres containing hydroxyl and nitrile groups }
- D06P 3/8271 ... {mixtures of fibres containing amide and nitrile groups }
- D06P 3/8276 ... {mixtures of fibres containing ester groups }
- D06P 3/828 ... {mixtures of fibres containing hydroxyl groups }
- D06P 3/8285 ... {mixtures of cellulose and polyolefin fibres }

- D06P 3/829 . . . {mixtures of cellulose and animalized fibres }
- D06P 3/8295 . . . {mixtures of fibres containing nitrile and ester groups }
- D06P 3/854 . . containing modified or unmodified fibres, {i.e. containing the same type of fibres having different characteristics, e.g. twisted and not-twisted fibres ([reserve dyeing D06P 5/12](#)) }

**D06P 5/00 Other features in dyeing or printing textiles, or dyeing leather, furs, or solid macromolecular substances in any form**

- D06P 5/001 . {Special chemical aspects of printing textile materials }
- D06P 5/002 . {Locally enhancing dye affinity of a textile material by chemical means }
- D06P 5/003 . {Transfer printing }
- D06P 5/004 . . {using subliming dyes }
- D06P 5/005 . . . {on resin-treated fibres }
- D06P 5/006 . . . {using specified dyes }
- D06P 5/007 . . {using non-subliming dyes }
- D06P 5/008 . . . {Migrating dyes }
- D06P 5/009 . . . {Non-migrating dyes }
- D06P 5/02 . After-treatment

**NOTE**

In groups [D06P 5/04](#) to [D06P 5/10](#) a compound is always classified in the last appropriate place.

- D06P 5/04 . . with organic compounds
- D06P 5/06 . . . containing nitrogen
- D06P 5/08 . . . macromolecular
- D06P 5/10 . . with compounds containing metal
- D06P 5/12 . Reserving parts of the material before dyeing or printing; {Locally decreasing dye affinity by chemical means }
- D06P 5/13 . Fugitive dyeing or stripping dyes
- D06P 5/131 . . {with acids or bases }
- D06P 5/132 . . {with oxidants }
- D06P 5/134 . . {with reductants }
- D06P 5/135 . . { with combined acids or bases + oxidants + reductants means }
- D06P 5/137 . . {with other compounds }
- D06P 5/138 . . {fugitive dyeing }
- D06P 5/15 . Locally discharging the dyes
- D06P 5/151 . . {with acids or bases }
- D06P 5/153 . . {with oxidants }

- D06P 5/155 . . {with reductants }
- D06P 5/156 . . {with combined A+B+C means }
- D06P 5/158 . . {with other compounds }
- D06P 5/17 . . azo dyes
  
- D06P 5/20 . Physical treatments affecting dyeing, e.g. ultrasonic, electric
- D06P 5/2005 . . { Treatments with alpha, beta, gamma or other rays, e.g. stimulated rays }
- D06P 5/2011 . . { Application of vibrations, pulses or waves for non-thermic purposes }
- D06P 5/2016 . . { Application of electric energy }
- D06P 5/2022 . . { Textile treatments at reduced pression, i.e. lower than 1 atm }
- D06P 5/2027 . . . {before dyeing }
- D06P 5/2033 . . . {during dyeing }
- D06P 5/2038 . . . {after dyeing }
- D06P 5/2044 . . { Textile treatments at a pression higher than 1 atm }
- D06P 5/205 . . . {before dyeing }
- D06P 5/2055 . . . { during dyeing }
- D06P 5/2061 . . . {after dyeing }
- D06P 5/2066 . . { Thermic treatments of textile materials }
- D06P 5/2072 . . . {before dyeing }
- D06P 5/2077 . . . {after dyeing }
- D06P 5/2083 . . . {heating with IR or microwaves }
- D06P 5/2088 . . . {by fluid-bed techniques }
- D06P 5/2094 . . . {by molten masses }
  
- D06P 5/22 . Effecting variation of dye affinity on textile material by chemical means that react with the fibre { (documents concerning material modified in the mass by compounding with modifying agents affecting the dye affinity after spinning, are not classified here: see the relevant groups [C08](#) , [D01F](#) , [D06P 3/00](#); Grafting of monomers on textile materials [C08F](#) , [D06M 11/00](#)) }
- D06P 5/225 . . {Aminalization of cellulose; introducing aminogroups into cellulose }
- D06P 5/30 . Ink jet printing ([ink jet printing apparatus B41J 2/00](#))
  
- D06P 7/00 Dyeing or printing processes combined with mechanical treatment**
- D06P 7/005 . {Dyeing combined with texturising or drawing treatments }