



p.IVA 00736390964
Cod.Fisc. 02639210158
c.c.i.a. Milano n. 927455
Codice APP/ISS azienda 00736390964

Gammacolor s.r.l.
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Associazione Tessile e Salute
Azienda associata

Sistema di gestione qualità
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TECHNICAL INFORMATION



GAMMACOLOR

Dyes and auxiliaries for textile industry



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Gammacolor has been on the market since 1975 for the commercialization of dyes and auxiliaries for the textile industry.

The headquarter of Gammacolor s.r.l. is in Via Zeuner N. 5, 20822 Seveso (MB), Italy, where there are administrative and commercial offices, laboratory and warehouses.

The laboratory provides: quality control of all products, incoming and outgoing; a customized service to the customers: research and development, analysis, reproducing and matching samples by lab dips, all kind of fastness tests, everything supported by modern technologies and the professionalism of the technicians who work at the company and who provide their assistance in the various phases of industrial production.

Gammacolor presents, works and cooperates with various organizations and associations:

- Part of "Tessile e salute" association.
- Collaborates with Federchimica (centro Reach.), Italian Federation of the chemical industry.
- Collaborates with the Institute of Pharmacological Research Mario Negri (istituto di ricerche farmacologiche Mario Negri, nonprofit research institute dedicated to clinical and biomedical research), in Milano.

Gammacolor has its Quality Management System certified ISO 9001 by Certiquality.

Gammacolor is an active member and one of the main promoters of the project "Life prosil" endorsed by the European Union, related to REACH regulation: the key aspect of the project "Life prosil" is to adopt "non-testing methods" ("read-across" and "QSAR") for the analysis of chemicals, in order to direct chemical industry towards the use of safer products, reducing costs, and increasing sustainability.

Our products:

- Dyes for cellulosic fibers (cotton, linen), regenerated cellulose fibers (viscose rayon), synthetic fibers (polyester, polyamide, acrylic, acetate, flame-resistant)
- Special dyes for obtaining old, distressed, wash down effects (Special sulphur dyes, excellent alternative to pigment dyeing on garment)
- Pigments, metallized dyes, glitters.
- Products for the pre-treatment: wetting agents, buffering agents, stabilizing agents, reducing agents, cationizing agents.
- Optical brighteners.
- Products for dyeing: dispersing agents, levelling agents, reducing agents, sequestrants, crack marks inhibiting agent, antifoaming agents.

Products for finishing: detergents, resins, softeners, silicones, stiffening agents, waterproofing agents, antistatic agents, water absorbing agents, fixing agents, binders.



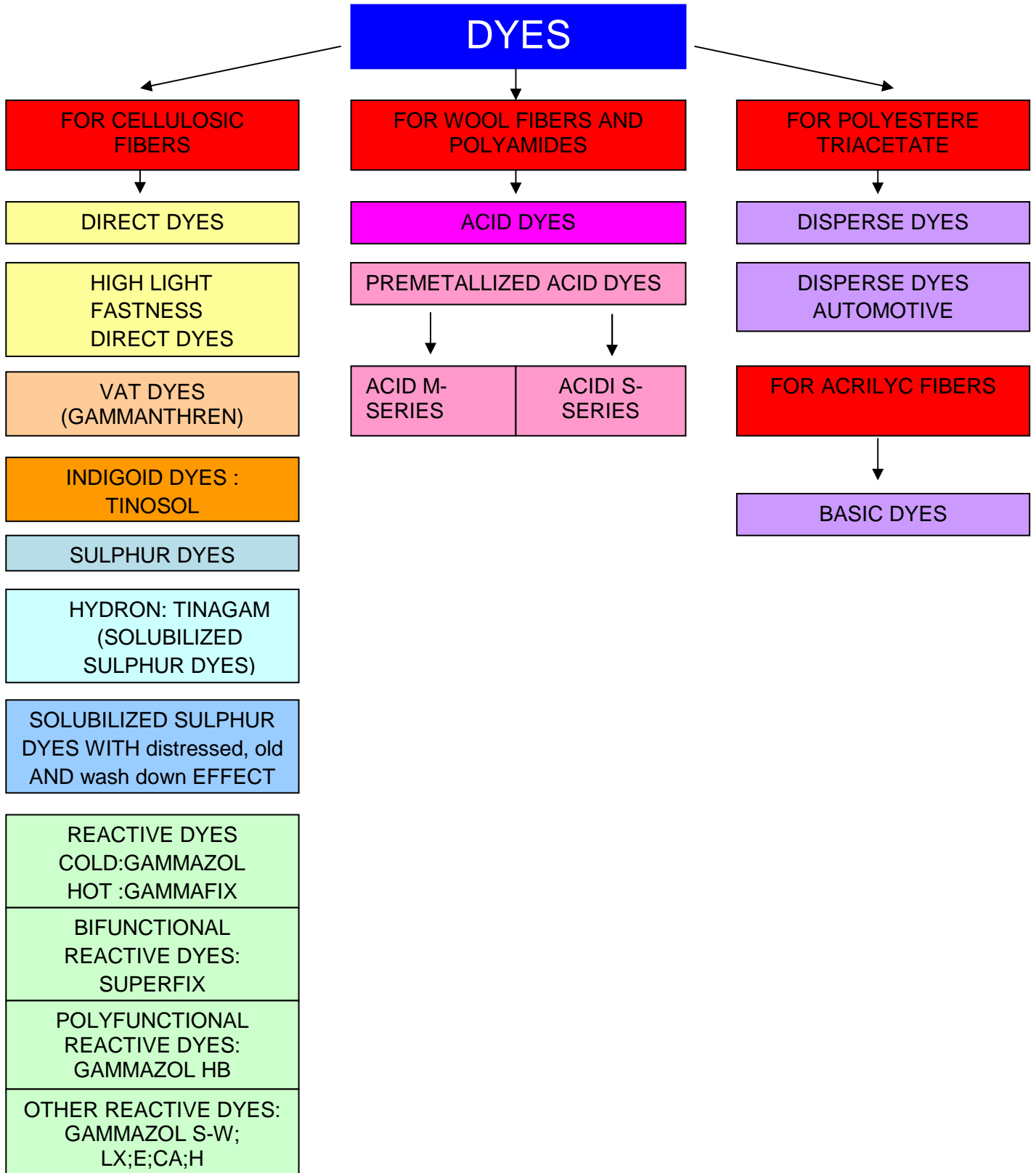
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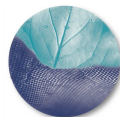
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WETTING AGENTS/DETERGENTS

1

NAME

Chemical features and usage information

WETTING AGENTS/DETERGENTS

NETZER NV

Non-foaming, degreasing detergent agent. Mixture of anionic and non-ionic surfactants with solvents, specific for high turbulence machines, used in the scouring of natural and synthetic fibers or as degreasing agent of spinning oils.

NETZER JET

Non-foaming, wetting and detergent agent. Mixture of non ionic surfactants, specific for high turbulence, used in the scouring of all kind of fibers and in all those processes where a perfect wetting power is needed.

NETZER HC

Detergent-wetting and degreasing agent. Mixture of anionic, non ionic surfactants with solvents employed for scouring and bleaching (with oxygenated water, hydrogen peroxide) processes.

NETZER SBC

Mixture of anionic and non-ionic surfactants. wetting and detergent agent for scouring and bleaching (with oxygenated water, hydrogen peroxide) in-continuous-mode processes ensuring perfect wettability of the fabric during foularding process. Furthermore it acts as an emulsifier for the impurities of the cotton, promoting the perfect elimination of non cellulosic materials from it.

NETZERGAMMA ME

Mixture of alkyl-sulfonate in aqueous solution. No diphenols and cresols present. It products very little foam. It's used in lixiviation of cotton yarn and fabric.

NETZER RT

Fat derived cationic polycondensate. Made for washing printed fabrics, with a reserving action of the white background, allowing the complete removal of unfixed, excess dyes and auxiliaries on the fiber during steaming phase.



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NETZERGAMMA EU

Diocetyl sodium sulfosuccinate and derivatives of sulfonated alcohols aqueous solution. Ideal wetting agent for dyeing with vat, reactive disperse, direct, sulphur and for e per la bleaching with hypochlorite and with peroxides.

NETZER FVA

Anionic wetting agent derivative of non-foaming sulfonated alcohols with high stability in caustic soda at high concentrations.It's used as wetting agent for foulard-pad-dyeing with reactive dyes as it ensures a perfect stability in the caustic soda bath.

NETZER SAN T 70

De-Aerating wetting agent based on phosphonic esters. It has high detergent and wetting power during the scouring and during cotton yarn preparation phases.

NETZER LC2

De-Aerating,wetting, anionic agent based on phosphonic esters. It has high detergent and wetting power during the scouring and preparation of cottono and synthetic mixtures. Used also for soaping for print.

GAMMAPON 195 LC

Non ionic detergent, ethoxylated fatty alcohol, for washing and scouring of yarns and fabrics of any kind.It ensures complete removal of spinning oils and grease stains.

GAMMAPAL OR2

Non-ionic, dispersing agent for oligomers and impurities on polyester yarn.

GAPON B

General use detergent, mixture of anionic and non ionic surfactants. Used in the scouring of fabrics of natural or synthesit.It can be used as soaping agent after dyeing.

GAPON GA

Non ionic, Alkylarylpolyglycolether. Detergent with good emulsifying and dispersing properties for the treatment and removal of mineral oil from textile materials.

GAMMA DT

Non ionic, de-Aerating wetting agent.Mixture of phosphoric esters with emulsifying agents without silicones.



SPECIAL DETERGENTS

1

NAME

Chemical features and usage information

Special detergents

GAMMAPON COMP

Complete detergent for any kind of washing machine, non foaming. Detergent for whites, laundry clothes and all kind of clothes. 90% biodegradable.

OSSITEX 2B

Combination of inorganic salts, dispersing agents and soaping agents. Proposed mainly for the one-phase developing and soaping of Gammanthren (Vat) black BB dyeings and similar dyes.

OSSITEX O

combination of substances with properties to facilitate and reach final treatments of dyeings with vat dyes.

GAMMA RC

Solvent-free detergent, specific for the removal of silicone oils. Specific for synthetic fiber scouring who contains elastomers

GAMMAPON SO

Mixture of alkaline salts with anionic and non ionic surfactants and soaps/detergents without optical brighteners

LEVELLING AGENTS

1

NAME

Chemical features and usage information

Levelling agents

EGALTEX A

Non-ionogen levelling agent based on polyvinylpyrrolidone,, discharging agent in alkaline environment- reducing agent for colors and printings, also excellent levelling agent for dyeing with direct dyes.

EGALTEX OR

Oligomeric, non ionogen levelling agent, retardant in dyeing with vat and direct dyes. Suitable for the printing with half dyeing effects with vat dyes and during discharging processes.



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EGALTEX P

Levelling and retardant agent in dyeing with vat and direct dyes. Suitable for the printing with half dyeing effects with vat dyes and during discharging processes. Non ionogen, oligomeric, condensation product.

EGALTEX KA

Levelling and dispersing amphoteric agent, based on polyglycolethe, for acid and basic dyes for polyamide fibers, wood and blends.

EGALTEX PA

Non ionic levelling agent for polyamide and wool fibers: aminic oxyethylated derived.

EGALTEX O

Dispersing, emulsifying and levelling agent.
Polyglycolic ester of non-ionogen fat acid

EGALTEX PLUS

Anionic dispersing and solubilizing agent deried from special heterocyclic and sulfonic compounds. It owns also a sequestering, levelling action, promoting also connection between dyes and fiber, facilitating equal distribution of dyes. Used in dyeing of cellulosic fibers with direct, reactive, vat and sulphur dyes .

GAMMAPAL WDE

Non ionic polyglycolic hetero-esters: levelling-dispersing agents in dyeing of polyester fibers with disperse dyes with high yield in particularly critical operating conditions. It acts as a dispersing agent helping migration and diffusion of dyes into the fiber; it has a detergent-emulsifying action toward spinning and winding lubricants, and on oligomers.

GAMMAPAL DF

Anionic dispersing, diffusing and swelling agent for dyeing of polyester fibers based on esters and polyglycolethers. If material is very packaged it allows to obtain a perfectly levelled dyeing.

GAMMAPAL NK

Non toxic diffusing, accelerating agent used in dyeing of aramid fibers; it allows to enhance exhaustion of cationic dyes used in dyeing of aramid fibers.



SEQUESTERING AGENTS

1

NAME

Chemical features and usage information

Sequestering agents

GAMOL PLUS

A mixture of sequestering agents. Anionic polymer and sulfonic derived, it's used in many processes with different classes of dyes.

ACQUAMOLLAN M 500

Anionic sodium polyacrylate-polyphosphonate. Sequestering agent for calcium, iron and magnesium in alkaline environment. It acts as a protective colloid during vat dyeing; it replaces phosphates or EDTA during dyeing and soaping of reactive dyes as it does not act on metals of dyes.

ACQUAMOLLANFE

Anionic, sequestering agent with high specific activity for iron and copper ions and not for alkaline-earth metals. Suitable in bleaching baths with hydrogen peroxide and where the presence of iron, especially in strongly alkaline baths, may cause problems.

ACQUAMOLLANCM

Anionic sequestering agent for calcium, magnesium and iron, based on polyalkylaminomethylenephosphonic acid, used during bleaching with hypochlorid or hydrogen peroxide.

ACQUAMOLLANAC

Sequestering anionic combination of organic acids partially salified.

ACQUAMOLLAN B LIQ.

Sequestering agent based on Tetrasodium ethylenediamine tetracetate Tetrasodium (EDTA 4Na). Used for metal ions, alkaline earth and heavy, with which it forms water soluble complex.

GAMOL BO

Sodium polyacrylate modified in aqueous solution. Dispersing and complexing agent in dyeing of cotton and PES/cotton blends to eliminate, by precipitation, all the substances present on cotton. It acts as a colloid and sequestering agent in dyeing with vat dyes and also is used as a sequestering agent in dyeing of cotton with reactive dyes.



DISPERSING AGENTS AND STABILIZERS

1

NAME

Chemical features and usage information

Dispersing agents

GAMOL WS

Anionic dispersing agent based on the sodium salt of a condensation product of naphthalenesulfonic acid and formaldehyde. Increase the dispersion stability of vat dyes.

GAPON SN

Sodium salt of a polyacrylic acid. Sequestering and dispersing agent for calcium salts on raw cotton fibers. The product has a given ligand complexing power for ions of heavy metals.

Hydrogen Peroxyde Stabilizers

GAMMAPON AF

Synergic mixture of acids and mineral salts. Stabilizer for bleaching baths with hydrogen peroxide; it's used for bleaching of the natural fibers with hydrogen peroxide.

GAMMAPON PC

Synergic mixture of acids and mineral salts.
Stabilizer for bleaching baths with hydrogen peroxide

GAMMACOMPLEX EU

Synergic mixture of anionic phosphonated surfactants. It's used during scouring and bleaching of yarns and cotton fabric as it acts, at the same time, as stabilizer, dispersing, sequestering, wetting and deterging agent.



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FIXING AGENTS FOR DYES

1

NAME	Chemical features and usage information
GAMMAFIX TN liq.	Fixing agent derived from polyammonium. Applied on cellulosic fiber, allows its laqueousing with acid dyes and other classes of soluble and dispersible dyes.
GAMMAFIX PA	Phenolsulfonate derived; anionic fixing agent for acid dyes. Gammafex PA increases washing fastness of nylon fabrics dyed with acid dyes. The product does not change the hand of fabrics and does not alter the tone hues.
GAMMAFIX XGM	Special product for the modification of the chemical nature of cellulosic and wool fibers. It's used to achieve special effects faded (delavè) or bicolor. Can be used with any type of dye.
GAMMAFIX IGZ	Agent for fixing indigo, vat and sulphur dyes on cellulosic fibers. You get a superior wet-rubbing fastness (1-2 points) on fibers dyes with vat dyes.
GAMMAFIX RE	Multifunctional Anionic amidic fixing agent for direct and reactive dyes. It increase washing fastness of dyes without altering light fastness.

GENERAL AUXILIARIES

1

NAME	Chemical features and usage information
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Reducing agents

RIDUCENTE FG	Reducing agent, thiourea dioxide high temperature resistant; it's used in dyeing with vat dyes. It's used also in Pad-steam dyeing and for the stripping of dyes on polyester.
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RIDUCENTE Z

Reducing agent derivative of glucose for pre-reduced sulfur dyes, applicable both in the dye exhaustion and in continuous methods.

OSSITEX BO

Aqueous solution of sequestering and reducing substances or the finishing of yarns and fabrics. The product has the function to block the residual chlorine of bleaching, neutralizing its corrosive ability.

OSSITEX 2B

Inorganic salts with soaping and dispersing functions. It's used for the contemporary oxidation and soaping of Vat black BB and similar dyes.

Buffers and pH modifiers

DONATORE TP

Acidity donor: it's used during dyeing with acid dyes instead of acetic acid.

GAMMACID PES

Anionic acid buffer, synergistic blend of organic acids and salts. It allows you not to use acetic acid while maintaining the ideal pH, during dyeing with disperse dyes. It owns dispersing property, sequestering property (Ca, Mg, Fe); it's also an anti-reducing agent in dyeing and printing of polyester.

GAMMACID AE

Alkaline Buffer for the dyeing of polyester, aliphatic amine that adjusts the pH to 9.5, keeping it constant in time and at each temperature.

Antifoaming agents

ANTISCHIUMA NSP

Non-silicone Antifoaming agent of general usage: mixture of alkybenzenes and non-ionogen surfactants.

ANTISCHIUMA SI

Non-ionogen liquid silicone antifoaming emulsion.



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Non-slip agents

ANTISTRAMANTE VS

Colloidal dispersion with non-slip effect, increasing sealing the seam. Finishing of linings of synthetic fibers and viscose, also for finishing with natural feel of fabrics of polyester and polyamide.

ANTISTRAMANTE CS

colloidal silica in aqueous dispersion for synthetic fibers, nylon, polyester, rayon-viscose lining materials and acetate. cationic nature

Antifilming

GAMMA AST

High anionic acrylic based polymer in aqueous solution. It's used to thicken impregnation baths, especially to avoid possible fouling of the spouts dewatering of Hot Flue and to lock the dye on the fabric, so as not to have excessive migration, resulting in bad dyeing levelling.

Anti-mold – Antibacterial – Antimoth

ANTIMUFFAGAMMA

broad spectrum bactericide for preservation of products sensitive to gram-positive and gram-negative bacteria.

GAMMA BMT

Specific product for the treatment of bacterial, anti-mold and moths..

GAMMACID ANT

Universal non-ionic anti-moth, synthetic pyrethroid derivative; Biodegradable.For use on wool and blends.

TARMACIDE TAV

Bactericide product with long-lasting action on fibers. It inhibits the formation of mold and bad smells due to bacteria.

Antiroll

GAMMA APV

Polyvinyl alcohol: it gives excellent results as antiroll on polyester or blends.

Crack marks inhibiting agents



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ANTIBASTONANTE GAMMA

Fatty acid-weakly anionic: it gives a slipping and anti crack mark effect for cotton dyeing.

ANTIBASTONANTE PES

Anti crack mark for synthetic and animal fibers and their blends.

ANTIBASTONANTE SK

Hydroxyethylcellulose in aqueous solution: lubricant and anti-crack mark effect product for dyeing silk and wool. It lubricates fibers preventing the fixation of pleats.

GENERAL AUXILIARIES

2

NAME

Chemical features and usage information

General auxiliaries-2

LUVISKOL K30/G

Anionic Polyvinylpyrrolidone in aqueous solution for the discharge of dyeing with vat, sulfur and direct dyes. The product retains the discharged dye in solution, preventing the re-deposition of the dye on the fabric/yarn. It is also used in all the washing operations after printing or dyeing in which you want remove excess dye improving the rubbing fastness.

COLDFIX PD

Mixture of alkaline substances silicate-free, for continuous dyeing of vinylsulphonic-reactive dyes; it replaces caustic soda and silicate.

TAMPONANTE GAMMA

Weak oxidant derived from benzenesulphonic acid.

CARRIER PAD

Levelling agent, anionic self-emulsifying oxyether. It contains solvents and emulsifiers that facilitate dispersion in water. Special Swelling action for Polyester fibers, especially in those cases where you can't dye above 100°C.

FINISH PES

Dyeing and finishing auxiliary, fast to washing, it gives breath, hydrophilic, antistatic and lubricants properties to polyester fibers.



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CATALIZZATORE CM

Cross-linking agent for anti-crease resins, bases on magnesium salts It's used in finishing with thermosetting resins to be used with cellulosic fibers and their blends.

GAMMASTEND

Auxiliary acting as dispersant, wetting agent, anti-foaming; it avoids the formation of "eyes", scratches, improving levelling of materials, in pigment or inkjet printing. Useful for the application of adhesives and in particularly on paper by increasing the level of fluidity of the resin making the film more homogeneous.

GAPON TRZ

It inhibits the corrosion of metal structures such as buttons or zippers during dyeing operations or in water, avoiding oxidation or halos caused by the metal.

ANTIFIAMMA STE

Complex salt with flame retardant functions; non-permanent; for cellulosic fibers.

FINISH PA

Polyester polymer; it's used in dyeing instead or together with usual levelling and dispersing agents for Polyamide fibers. It gives special features to fabrics especially, otherwise difficult to achieve: hydrophilicity, breathability, ease of washing.

Enzymes

1

NAME

Chemical features and usage information

Enzymes

SBOZZIMANTE DSN

Desizing agent; dispersing, crack marks inhibiting agent, levelling agent and suspending for the pre-treatment of denim fabric with "Stone-method". Mixture of anionic and non-ionic surfactants, amylase enzymes, fermentation inhibiting fatty acids. It has the property to transform amylaceous substances into water soluble compounds. It produces a hindrance to the Ingido shifting on the white yarn, keeping it in the water solution.



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SBOZZIMANTE 240 conc.

Alpha-amylase (EC 3.2.1.1) produced by submerged fermentation of a microorganism Bacillus.

GAMMASTONE 605 J

Liquid neutral cellulase accelerating mechanical removal of indigo during washing procedure. It allows you to significantly reduce the time of the Stone-Wash procedure and to obtain a Stone Wash-effect without the use of pumice stone, on certain Denim items.

GAMMASTONE 45 J

Cellulase based on a biogenetic protein produced by fermentation of modified microorganism Aspergillus. Specific product for stone-wash treatment of Denim fabric, it's already buffered has a very low back-staining effect, that is, a minimum re-deposition of color on the white parts. It 'an environmentally friendly product because it contains no phosphates.

SBOZZIMANTE G 500

Alfa-amilase (EC 3.2.1.1) prodotta dalla fermentazione sommersa di un microorganismo Bacillus.

ENZIPREP

Pectinase produced by submerged fermentation of a genetically modified micro-organism Bacillus. Enziprep removes pectin from the outer membrane of the cell cotton fibers without degrading the cellulose and therefore does not have negative effects on the strength properties of yarns or fabrics of cotton.

ENZIGAMMA SILK/G

Serine Potease, produced by submerged fermentation of the microorganism Bacillus. Originally developed for use in detergent formulations to remove the protein-based stains for example grass, blood and various foods such as egg and sauce. These substances are almost insoluble and tend to adhere to the surface of the garments, fabrics. the prodott hydrolyze the spots that are readily dissolved or dispersed in the wash.

ENZIBLEACHED

Laccase (EC 1.10.3.2) produced by submerged fermentation of a genetically modified microorganism Aspergillus. Used for bleaching of indigo in finishing operations for denim. The product is used when you want to increase the abrasion of denim, allowing a rapid process of discoloration of indigo. A finishing highly abraded and easy to control and reproducible.



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ENZIGAMMA AO

Liquid stabilized catalase. It's applied after bleaching to remove residual oxygenated water from textile material and from the bath, before dyeing .

ENZIGAMMA AP/T liq.

Cellulase on the basis of a biogenetic protein produced through fermentation of the modified microorganism Aspergillus. It is used for Bio-Polishing treatment, an enzymatic process for cellulosic fabrics finishing, where the enzyme allows a controlled hydrolysis of the fibers, in order to modify the surface and the hand of the fabric.

ENZIGAMMA AP/N liq.

Cellulase enzymes. It is a specific product for the anti-pilling treatment of 100% Tencel fabric that in rope dyeing tend to fibrillate; the product eliminates this " skin-soothing" (or "peach-skin") effect of the fabric.

ENZIGAMMA SILK/POST

protease enzyme to be used as a modifier of the hand, it gives a sandblasted effect to the silk

ENZIGAMMA AP/JEANS

Cellulase enzymes: it's a specific product for jeans-treatment: it reserves pockets in white.

GAMMASTONE BP

Cellulase based on a biogenetic proteine, it's used for bio-polishing treatment, that is an enzymatic process for cellulosic fabric finishing, where the enzyme allows a controlled hydrolysis of the fibers, to modify fabric surface and hand. It's suitable for linen and cotton treatment.





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SOFTENERS

1

NAME

Chemical features and usage information

GAMMASOFT TA scaglie

Modified amidic softener; weakly cationic softener of general usage.

GAMMASOFT FC

Cationic softener for cellulosic fibers and blends. It provides very soft hand to cellulosic fiber fabrics and to mixed with artificial fibers fabrics.

GAMMASOFT 109

weakly anionic fatty acid, it gives a slipping and anticrack- inhibiting effect for cotton dyeing.

GAMMASOFT JEANS

Cationic liquid softener based on fatty acid, used for all fibers, especially indicated for the treatment of cotton garments dyed with indigo. It gives a softer and smoother hand.

GAMMASOFT K-FC

cationic quaternized fatty acid ester used in various applications such as textile softener, offers excellent degree of softness without the effect of "fat hand" giving antistatic and lubricants properties.

GAMMASOFT IS 20

cationic fatty acid used mainly on cotton and regenerated cellulosic fiber; it gives a very soft hand saving hydrophilicity of the fabric.

GAMMASOFT SC

Aqueous emulsion of microcrystalline waxes; weakly cationic with specific use as a lubricant and polishing for spinning of cotton yarn, knitting in general. It gives a soft hand and at the same time helps to decrease the index of friction of the yarn.

GAMMASOFT AFN

Universal amphoteric Fatty acid softener for all fibers. It gives a soft and smooth hand, it's suitable in exhaustion and foulards method to obtain special effects.

GAMMASOFT CD conc.

Liquid cationic softener, based on fatty acid, used on any kind of fiber, especially indicated for the treatment of cotton finished garments and dyed with indigo. It gives a softer and smoother hand.



SILICONES

1

NAME

Chemical features and usage information

Silicones

GAMMASOFT 34A

Non ionic Polydimethylsiloxane in aqueous solution. It gives oily and slippery hand to the treated garments. For garments to be used in tumbler.

GAMMASOFT EL

Cationic softener. Lubricant amide and polydimethylsiloxane derivative. It gives a very soft, slippery and elastic hand to yarn and woven cellulose fiber, even if blended with synthetic fibers.

GAMMASILIKON SI

Non ionic silicone softner for natural, artificial and synthetic fibers. Furthermore it increases sewability of fabrics reducing fabric/metal friction.

MICROEMULSIONE MS

Non ionic modified Amino-Polysiloxane siliconic microemulsion. It gives an exceptional softness to the fabrics and a glossy and bright effect . It does not cause any yellowing of the fabrics. No catalyst required. Suitable also for the finishing of polyester.

MACROEMULSIONE MS

Softening emulsion of reactive-to-air silicone. It was thought for finishing of tan; it's used to obtain a very soft, silky, slippery, slightly dry and pleasant to touch effect.Slightly water-repellent effect.

MACROEMULSIONE MS/I

Emulsion with a strong softening effect of structural type. The active ingredient is a modified type of silicone that gives to the treated fabric a strong hydrophilic, wetting, water-absorbent character.

NANOEMULSIONE LR

Amino-Silicone nanoemulsion especially suitable for light fabrics as linen, silk and cotton giving a sagging hand.

GAMMASILIKON I

Non ionic silicone microemulsion. It gives a soft and voluminous hand to the fabric giving also hydrophilic properties.



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MICROSIL GAMMA

Finishing agent particularly effective to modify the hand of the fabrics and give them features such as softness, crease resistance and sewability.

GAMMASILIKON MSI

Nonionic polysiloxane microemulsion, it gives exceptional softness to the fabrics, not causing yellowing. Soft and shiny hand on cotton fabrics, especially for a subsequent calendaring. Used in the finishing of PES fabric as it doesn't give thermomigration, during drying phase, with subsequent losing of fastness.

FINISHING AUXILIARIES

1

NAME

Chemical features and usage information

Waterproofing agents

GAMMAFLOR WR

Cationic fluorine-derivative, waterproofing agent for natural and synthetic fiber fabrics. At almost all kind of fibers it gives an hydro-oleophobic effect with good duration of the effect over time.

GAMMAFLOR E5

Hydrodisperse, weakly cationic Fluorine-polymer. It's used for hydrophobic and stain finishing of all textile fibers, especially for polyester and polyester/cotton blends. This finishing owns high resistance toward dry and wet washing. It's a new concept fluorinated finishing based on six carbon atom monomers so it does not contain Perfluorooctanoic acid (PFOA) and perfluorocarboxylic acids with chain longer than eight carbon atom (PFCAs) or their precursor.

GAMMAPRET MP

Cationic Microwaxes and zirconium-derivative for the waterproofing of any kind of fiber.



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Waxes

GAMMAFINITEX WT 808

Non ionic polyethylene wax in aqueous emulsion. It gives to both natural and synthetic fiber fabrics an increasing of mechanical fastness (abrasion and straining) and a full and draped hand.

GAMMAOIL B

Modified natural Oils and fats. It's used during printing and coating to give fat effect.

GAMMAPRET PLE

Secondary Nonionic Polyethylene dispersion. For knitting and cellulosic, synthetic and blended fabric finishing. It gives a very soft, slippery and sliding hand. It maintains permanent effects toward washing, reducing loss of mechanical resistance (straining, abrasion, traction) caused by resin application; it increase sewability.

Crosslinking agents

GAMMAISO B

Aliphatic polyisocyanate, crosslinking agent for polyurethane and acrylic resins. Its use increases fastness of used products and of desired effects.

GAMMAFIX MBF

Self crosslinking melamine-low formaldehyde content, specific for printing. it significantly improves the fastness of pigments but it is also used for the same purpose also for finishing recipes.

Starches/stiffening agents-thickeners

1

NAME

Chemical features and usage information

Thickeners

ADDENSANTE HIT

Synthetic acrylic polymer. Thickener agent for generic acrylic or polyurethane dispersions.



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ADDENSANTE 200

Non-ionic polyurethane-based thickener. for generic acrylic or polyurethane dispersions.

Stiffening agents-1

GAMMAPRET AV

Anionic dispersion of polyvinyl acetate. In finishing it gives a very stiff hand to the fabric; fast toward washing.

GAMMAPRET AMNN

Acrylic resin for printing very soft and elastic ,with transparent film resin finishing; excellent binding power for dressing (size) on cotton, cotton / polyester and silk.

GAMMAPRET BIANCO NJ

White acrylic dispersion for printing and coating You get a covering effect with a soft hand, which can be further soften or change as desired by the customer. It comes with excellent fastness to rubbing and dry washing.

GAMMAPRET APB

Dispersion of anionic polyacrylate. In finishing combines with reactive resins giving a soft hand and increasing mechanical strength (straining, abrasion, pilling).

GAMMAPRET AMB

Non-ionic polyacrylate. Product for the finishing of all the fibers, in combination with reactive resins gives a very stiff hand. Permanent to washing.

GAMMAPRET PU/SB

Anionic polyurethane dispersion. Used in coating, it gives a soft and slightly rubberized hand to the material, great foaming properties. In combination with Gammaiso B, it improves the adhesive and lamination performance . Also used for over-dyeing with acid dyes or premetallized dyes.

GAMMAPRET PE

Anionic polyester resin for the sizing of warp in denim yarn. It avoids the dustiness during weaving operations, enhancing sized yarn slipping on the loom, as it's not sensitive to warm and humid treatment. It's used also as finishing agent for the preparation of fabric tape.



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Stiffening agents-2

GAMMACOAT CRACK B

Ready paste for cracking effect to be applied in printing and coating. You obtain a particular cracked-effect when the fabric undergoes to traction, washing or rubbing; it gives a dry and stiff hand. It's fast to washing at low temperature, not at dry or solvent washing.

GAMMAPRET PU/T

Polyurethane dispersion with amphoteric nature, for padding (foulard) usage; it gives a "whippy" and slippery hand which can be changed mixing the product with other auxiliaries.

Resins - Binders

1

NAME

Chemical features and usage information

Resins

GAMMAFIX GEB

Modified dimethyloldihydroxyethylene urea. High reactivity cross-linking resin for cellulosic and sythetic blended fiber finishing; very low formaldehyde content; fast to washing.

GAMMAFIX 555 R

With incorporated catalyst-modified dimethyloldihydroxyethylene urea. Concentrated product for "wash and wear" finishing, with very low formaldehyde content; for cellulosic and blended fiber fabric; Tencel and its blends.

GAMMAFIX APB

Modified dimethyloldihydroxyethylene urea. High reactivity cross-linking resin for cellulosic and sythetic blended fiber finishing; very low formaldehyde content; fast to washing. It's suitable to obtain chintz effect and "wash and wear" finishing.

GAMMAFIX GAX

Modified dimethyloldihydroxyethylene urea. High reactivity cross-linking resin for cellulosic and sythetic blended fiber finishing; very low formaldehyde content; it gives high dimensional stability and does not change the color tone.



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Binders

GAMMAPRET AM

Anionic acrylic binder for padding usage; it gives a full and soft hand.

GAMMAPRET ET

Acrylic binder for padding and printing usage, it gives extremely high fastness and a soft hand.

GAMMAPRET GCW

Anionic acrylic binder for padding and printing usage, it gives extremely high fastness also to dry and hand washing, and soft hand. By padding, you can combine it with a suitable finishing resin.

GAMMAPRET ACB

Anionic acrylic dispersion; it gives to the material a soft and elastic hand. It's suitable as auxiliary of glyoxalic resins or with softeners to obtain various hand effect.

Adhesive

ADESIVO B

Anionic acrylic dispersion. It's used as an adhesive both in lamination between two fabrics or with transfer paper. Great fastness if the product is supported by a cross linking agent.

Optical brighteners

1

NAME	Chemical features and usage information
GAMMABLANK 101/3	Anionic stilbene derivative, liquid optical brightener with high substantivity for cellulosic fibers. . Especially suitable for bleaching with water peroxide. Previously mixed with disperse dyes, it gives much bluer tones
GAMMABLANK E2N	Liquid optical brightener with high substantivity for polyester fibers and their blends with cellulosic fibers. It's suitable for Pad-Thermosol and exhaustion methods, also during bleaching. It gives a violet tone to the white, with high light fastness.



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GAMMABLANK AC

Cationic derivative of benzoimidazole. Cationic optical brightener for acrylic fibers, hypochlorite resistant, with bluish tone. It is also characterized by its high substantivity, excellent wet fastness and steaming. Applicable both by exhaustion and padding

GAMMABLANK ATR

Nonionic Coumarin derivative: Suitable for optical bleaching, it can be used at acid, neutral or slightly alkaline pH, also in the presence of reducing agents and detergents.

GAMMABLANK BVA liq.

Anionic stilbene derivative . Optical bleaching agent for natural fibers and PA; It is particularly suitable for an exhaustion procedure. It is usually employed in the bleaching with hydrogen peroxide at high temperature. It's also suitable for the bleaching of viscose flock in brightening baths and for the bleaching of mercerized cotton. It can be used in bleaching of polyamide with reducing agents, buffering the pH with sodium acetate. It owns good light fastness and excellent washing fastness. It gives very brilliant shades of white with neutral shades.

GAMMABLANK PL

Anionic stilbene derivative. Optical bleaching agent with good-high substantivity for polyamidic and proteic fibers and with good light fastness. It gives a very clean and "push" white shade. It's used where an high light fastness it's not required.

GAMMABLANK PESR

Nonionic stilbene derivative. Optical bleaching agent for polyester, acetate and triacetate, with reddish-neutral shade with high overall fastness.



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Optical brighteners

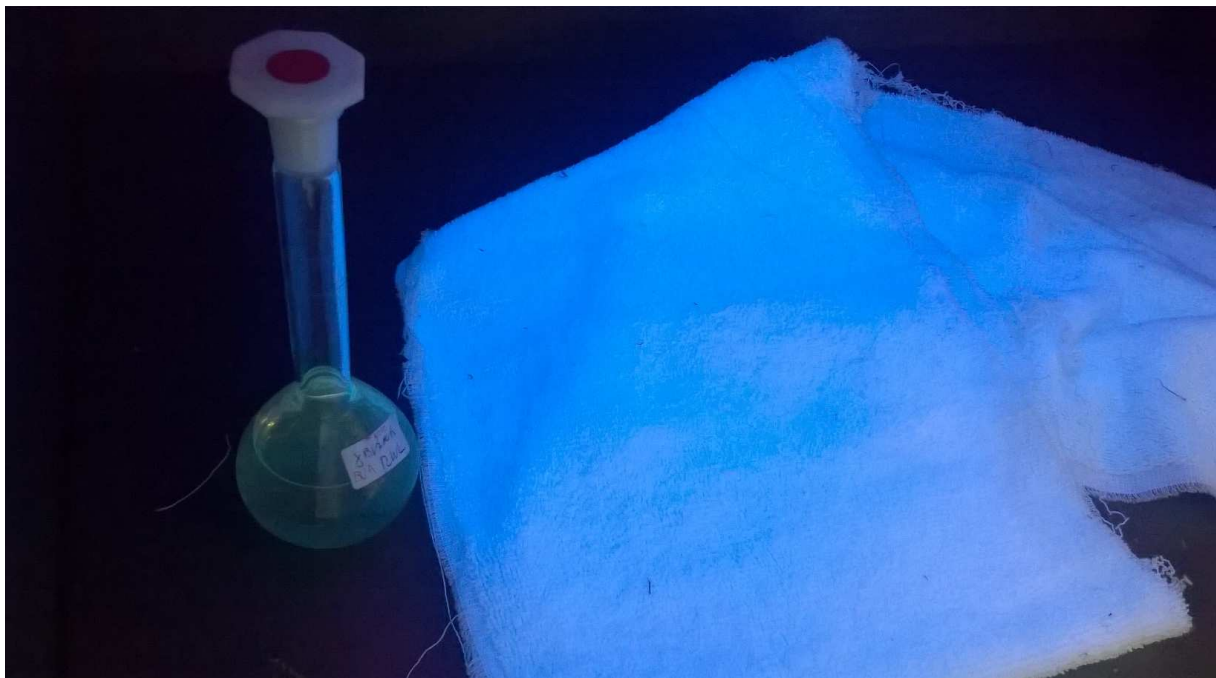
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NAME

Chemical features and usage information

GAMMABLANK WS 500%

Anionic stilbene derivative. It's suitable for cellulosic fibers, polyamide, silk and wool. It gives a tone between neutral shade and violet-blue shade. It's also suitable for continuous processes. It owns excellent light fastness on cellulosic and polyamidic fibers, good also on wool and silk with excellent washing fastness on all kind of fiber. GAMMABLANK WS 500% is especially suitable for continuous bleaching of fabrics and polyamidic blends.





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