COLOR CENTER, OUR COMPANY

Was founded in 1978. From the beginning, it has been consecrated to the design, production and marketing of dyestuffs and auxiliary products for the textile industry.

According to its wide experience and always looking ahead, the main objective of Color-Center, S.A. is to guarantee a complete and a tailor-made service to its customers. Thanks to this policy, our products are acquired by an increasing number of customers from all around the world. We offer specific solutions adapted to our customers requirements and we are proud to offer the highest quality services to a large number of customers.

RESEARCH, DEVELOPMENT, INNOVATION

Color Center, S.A. is a research & innovation driven chemical company, strategically focused on textile chemistry market. Our mission is to provide high value-added solutions to the technological challenges posed by our clients in a dynamic and constantly changing environment.

We have a wide experience in the textile sector with highly qualified staff and modern laboratories for synthesis, chemical characterization, application and quality control. We are aware of the competitive advantage that means incorporating the external talent and “ideas” to our innovation process. For that reason we work under a collaborative and highly flexible model based on the “Open Innovation”. We work closely with Customers, Suppliers, Experts and Technological Centers to offer our customers the best service and remain at the forefront of the sector.

We work systematically in the development, acquisition and design of new materials and Nano-materials that allow us to offer more sustainable products with an improved toxicological profile, while maintaining the most demanding level of performance and quality required by the current market.

DISTRIBUTION, PRODUCTION AND WAREHOUSES

Our products are distributed worldwide in the best conditions and with the highest punctuality from our factories and warehouses located in the most strategic areas. Our warehouses are equipped with the latest logistic systems, which allow us to manage the goods efficiently and to deliver them within the best deadlines.

Furthermore, our experience in the field of import / export permits us to be present anywhere in the world. CENTER QUIMICA S.A.C. is the operational base of the Group Color Center in the area of South America.
06 PRE-TREATMENT AND DYEING

08 Detergents and wetting agents
12 Sequestering agents & Peroxide Stabilizers
14 Optical brighteners
17 Antifoaming agents
18 Specific Auxiliaries
18 Fixing agents
19 Hydrophilic agents
19 Lubricants
19 Levelling agents
19 Dispersing agents & carriers
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20 FINISHING

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32 Water and oil repellents
34 Flame-retardant agents
36 Anti-slip agents
37 Anti-static agents
38 Sanitizing agents
39 Microencapsulated and controlled release products

40 ENZYMES

44 WASTEWATER TREATMENT

45 Flocculants and Coagulants
Defoamers
Biological and nutrient solutions
Specialties
PRE-TREATMENT
AND DYEING

Our expertise in textile chemistry allows us to offer customer-oriented product developments. Innovative product range for all textile processes: scouring, bleaching, dyeing... Every product has been carefully developed in terms of process efficiency, reproducibility, fastness, levelness, sustainability...

Value-added products thanks to open innovation and proprietary know-how.

Color Center offers outstanding customer service for pretreating and dyeing all kind of goods (wovens, knits, fibers, yarns, nonwovens):

- Preparation of complete recipes using our range of textile auxiliaries and dyestuffs.
- Development of processes and products, matched to the individual customer requirements.
- Simulation of pretreatment and dyeing processes in the laboratory.
- Carrying out tests according to national, international as well as specific customer standards (spectroscopic analysis -FTIR-, fastnesses, microscopic analysis, microbiologic testing...).
We provide true expertise and advice to our clients. With cutting-edge laboratory facilities and production lines we are able to offer both conventional and unique surfactant products. We see technical support as key to the growth of the business, and as a company we continually develop new surfactants to meet customer demands.

Surfactants contain both a hydrophobic and a hydrophilic section, and as a combination of these two differing characteristics within the molecule, many differing properties can be achieved. We have products that produce high or low foam.

In terms of ionicity there are 4 kinds of surfactants:

- **Anionic**
- **Nonionic**
- **Cationic**
- **Amphoteric or Zwitterionic**

Products are available for each of the surfactant types, anionics, nonionics, cationics and amphoterics. In our synthesis & formulation laboratories we develop products tailored to meet the most demanding specifications.

<table>
<thead>
<tr>
<th>WETTING AGENTS</th>
<th>PREPARATION</th>
<th>MERCERIZATION</th>
<th>DYING</th>
<th>BLEACHING</th>
<th>FINISHING</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLEX F-908</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL FD</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL MR</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL SAS</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL HC NUEVO</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL MGK</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL WET FL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>COMPLEX 2000 ULTRA</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL MD</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

Some products offer excellent detergency and are used in cleaning formulations. We have surfactants that offer good emulsification of oils and oligomers. We have some products that offer excellent wetting power and some that offer both wetting and dispersing properties.
<table>
<thead>
<tr>
<th>DETERGENTS</th>
<th>APPLICATION</th>
<th>PROCESS</th>
<th>FIBER TYPE</th>
<th>PRODUCT PROP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PREPARATION</td>
<td>DYING</td>
<td>BLEACHING</td>
<td>CONTINUOUS</td>
</tr>
<tr>
<td>COTEMOLL TOB</td>
<td>Detergent for pretreatment, desizing and washing of cotton, synthetic fibers and blends.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PRODUCTO DC</td>
<td>Detergent - wetting - sequestering for scouring and desizing of cotton Padding process.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL PC ULTRA CONC</td>
<td>Detergent - wetting concentrate for scouring and bleaching of cotton and blends.</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL DNS</td>
<td>Detergent and wetting agent for the pretreatment of cotton and its polyester blends.</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL MFA</td>
<td>Special wetting-detergent agent with emulsifying properties for continuous pretreatment steps of cellulose fibres and their blends with synthetics.</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL BSL NUEVO</td>
<td>Multifunctional product (organic stabilizer, detergent, emulsifier and sequestrant). Detergent for cleaning dyeing machinery.</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL E2</td>
<td>Detergent - bleach activator with hydrogen peroxide.</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL SIT</td>
<td>Emulsifier detergent of paraffins and silicones.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL D-750</td>
<td>General purpose detergent with biodegradable solvents.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PRODUCTO PCB 202-S</td>
<td>Solvent detergent for pretreatment of all kind of fiber.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL TS</td>
<td>Dispersing and accelerator of polyester dyeing diffusion.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>AMPLEX HTA</td>
<td>Detergent - dispersant for simultaneous scouring and dyeing PES/CV.</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL MWS</td>
<td>Detergent - dispersant which facilitates the removal and prevents deposits of oligomers during the dyeing process.</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL CWP</td>
<td>Detergent-dispersant antibackstaining in washing denim.</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL PS LÍQUIDO</td>
<td>Detergent preparation.</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL NI</td>
<td>Detergent - wetting nonionic generally applicable to all types of fiber.</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>COMPLEX EX</td>
<td>Detergent for pretreatment, desizing and dyeing of cotton, synthetic fibers and blends.</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL RV</td>
<td>Detergent for soaping of prints polyamide.</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL DC</td>
<td>Wetting, detergent and Special Degassing for coil.</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>COTEMOLL NFS</td>
<td>Wetting, detergent general application, low foam.</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>DETERGENTE Q</td>
<td>Detergent for cleaning of cylinders, boxes and stamping dies.</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>AMPLEX SDM</td>
<td>Product for cleaning dyeing machinery.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL 803-C</td>
<td>Detergent for washing ready-made garment.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL MH40</td>
<td>Anionic detergent with wetting properties, emulsifier and re-moisturizes.</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>COTEMOLL N CONC.</td>
<td>Anti-precipitant for dyeing acrylic fibers.</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
</tbody>
</table>
SEQUESTERING AGENTS & PEROXIDE STABILIZERS FOR OPTIMAL PROCESS PERFORMANCE

Since trace amounts of soluble iron, copper, manganese, calcium, and other metals occur naturally in many raw materials, the potential for scaling and undesirable metal-catalyzed reactions is widespread. These metal ions are normally found in processing water, and can also be introduced during processing.

Among the different types of metal ion control agents in use today, Color Center chelating agents produce the most stable complexes with metal ions and generally provide the most effective control of metal ion problems.

Color Center chelating & dispersing agents are the least costly option for metal ion control due to their effectiveness at remarkably low concentrations. Unique advantages of Color Center sequestering agents include:

- Enhanced sustainability
- Predictable performance
- High thermal stability
- Chemical stability
- pH stability

### SEQUESTERING AGENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Properties</th>
<th>Solid Content %</th>
<th>Application Process</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMPLEX BC POLVO</td>
<td>EDTA-based sequestering agent, high chelating power for iron.</td>
<td>85</td>
<td>3</td>
</tr>
<tr>
<td>AMPLEX SET</td>
<td>Phosphonate sequestering &amp; dispersing agent for bleaching processes, high chelating power for iron.</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>AMPLEX D-230</td>
<td>Phosphonate/acrylate sequestering &amp; dispersing agent for dyeing cellulosics, with ability to chelate iron.</td>
<td>25</td>
<td>1</td>
</tr>
<tr>
<td>AMPLEX CA-ECO</td>
<td>Sequestering &amp; dispersing agent for dyeing, phosphorus-free, readily biodegradable.</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>AMPLEX MS</td>
<td>Phosphonate sequestering agent for dyeing, with ability to chelate iron.</td>
<td>39</td>
<td>1</td>
</tr>
<tr>
<td>AMPLEX D6/NA</td>
<td>Phosphonate sequestering &amp; dispersing agent for the preparation and bleaching of goods, with ability to chelate iron.</td>
<td>28</td>
<td>1</td>
</tr>
<tr>
<td>AMPLEX XEL</td>
<td>Sequestering agent for the demineralization of cellulosic fibers, excellent chelating power for iron.</td>
<td>40</td>
<td>1</td>
</tr>
<tr>
<td>AMPLEX BC-ECO</td>
<td>General application sequestering agent, phosphorus-free, readily biodegradable, high chelating power for iron.</td>
<td>34</td>
<td>0</td>
</tr>
<tr>
<td>AMPLEX RG A.C.</td>
<td>Phosphonate sequestering &amp; dispersing agent for general application, no demetallizing effect, with ability to chelate iron.</td>
<td>40</td>
<td>1</td>
</tr>
<tr>
<td>AMPLEX 106 A.C. NUEVO</td>
<td>Sequestering &amp; dispersing agent based on acrylic copolymer.</td>
<td>40</td>
<td>1</td>
</tr>
</tbody>
</table>

0: Very low · 1: Low · 2: Medium · 3: High

### PEROXIDE STABILIZERS

<table>
<thead>
<tr>
<th>Name</th>
<th>Properties</th>
<th>Continuous</th>
<th>Discontinuous</th>
<th>Solid Content %</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTABILIZADOR H2O2</td>
<td>Organic stabilizer and sequestering agent for iron in alkaline medium.</td>
<td>-</td>
<td>X</td>
<td>20</td>
</tr>
<tr>
<td>ESTABILIZADOR VP</td>
<td>Organic silicate-free stabilizer.</td>
<td>X</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>ESTABILIZADOR VP CONC</td>
<td>Organic stabilizer of general application, silicate-free, recommended for pad-steam.</td>
<td>X</td>
<td>X</td>
<td>40</td>
</tr>
<tr>
<td>COMPLEX RNB</td>
<td>Silicate-based stabilizer for pad-batch application.</td>
<td>X</td>
<td>X</td>
<td>40</td>
</tr>
</tbody>
</table>
As a leading manufacturer and exporter of Optical Brighteners, Color Center S.A offers a wide range of Optical Brightening Agents suitable to be applied on different substrates like Polyester, Cellulose, Nylon, Silk, Wool…

OPTICAL BRIGHTENERS
TECHNOLOGY LEADER IN HIGH PERFORMANCE
OPTICAL BRIGHTENING AGENTS

Optical Brightening Agents (OBAs) absorb in the UV range of the spectrum (350-360 nm) and re-emit it in the blue portion of the visible spectrum (400-500 nm). A white surface treated with an optical brightener can emit more visible light than that which shines on it, making a pleasing whiter-than-white appearance.

FEATURES AND BENEFITS
- Brilliant, bluish whitening effects
- Good light fastness
- Excellent resistance to heat
- High chemical stability
- Low volatility
- Good compatibility

Major products can be customized as per customer’s needs i.e. Shade (bluish, violet, ...) Strength (E Value) and Active content. Just contact us for discuss precise requirements and obtain advice on which products are required to suit your exact needs.
### OPTICAL BRIGHTENERS

<table>
<thead>
<tr>
<th>OPTICOL BR LÍQUIDO</th>
<th>Very good stability in acid baths together with resin until pH=4.5.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTICOL BU</td>
<td>Good stability in the bleaching baths with peroxide or reducing agents.</td>
</tr>
<tr>
<td>OPTICOL NBS/B</td>
<td>Effects of very bright white blue-violet hue. Good stability in peroxide bleaching baths so the reproducibility is improved. Thanks to its high performance and sharpness it is their right OBA for processes &quot;Simply White&quot;.</td>
</tr>
<tr>
<td>OPTICOL CM-2B</td>
<td>Provides high degrees of white, intense bluish shade. Good stability in peroxide bleaching baths. Suitable for automatic dispersing equipment.</td>
</tr>
<tr>
<td>OPTICOL CM-B</td>
<td>Provides high degrees of white, intense bluish shade. Good stability in peroxide bleaching baths. Suitable for automatic dispersing equipment.</td>
</tr>
<tr>
<td>OPTICOL PB LÍQUIDO</td>
<td>Optical brightener for cellulosic fibers, polyamide, wool and silk. High affinity particularly suitable for the exhaust process.</td>
</tr>
<tr>
<td>OPTICOL PA-D</td>
<td>Fluorescent whitening agent with bluish white shade.</td>
</tr>
<tr>
<td>OPTICOL SLC 90%</td>
<td>Fluorescent whitening agent with violet white shade.</td>
</tr>
<tr>
<td>OPTICOL PAT-S</td>
<td>Optical brightener for polyamide, wool, silk, and cellulosic fibers. Applicable by exhaustion and continuous processes.</td>
</tr>
<tr>
<td>OPTICOL CPB-M</td>
<td>Fluorescent whitening agent with bluish white shade.</td>
</tr>
<tr>
<td>OPTICOL PES-MB</td>
<td>Optical brightener that provides high fastness. Highly recommended for application in peroxide bleaching bath when mixtures of PES/CO are handled.</td>
</tr>
<tr>
<td>OPTICOL UPR</td>
<td>Optical brightener for polyester fibers and its mixtures. Applicable by exhaustion and continuous processes.</td>
</tr>
<tr>
<td>OPTICOL TJ-TM</td>
<td>Optical brightener for exhaustion and continuous processes. Confers very bright whites with blue-violet shade.</td>
</tr>
<tr>
<td>OPTICOL PVC</td>
<td>Bisbenzoxazol derivative for incorporation into plastic materials (especially polymers and synthetic resins thermoplastics). High thermal stability (suitable for fiber extrusion processes). High lightfastness.</td>
</tr>
</tbody>
</table>

### APPLICATION PROCESS

<table>
<thead>
<tr>
<th>FIBER AFFINITY SHADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELLULOSIC MEDIUM NEUTRAL</td>
</tr>
<tr>
<td>CELLULOSIC LOW NEUTRAL</td>
</tr>
<tr>
<td>CELLULOSIC HIGH BLUE VIOLET</td>
</tr>
<tr>
<td>CELLULOSIC HIGH BLUE</td>
</tr>
<tr>
<td>CELLULOSIC HIGH NEUTRAL</td>
</tr>
<tr>
<td>POLYAMIDE HIGH BLUE</td>
</tr>
<tr>
<td>POLYAMIDE HIGH BLUE</td>
</tr>
<tr>
<td>POLYAMIDE WOOL SILK CELLULOSIC HIGH VIOLET</td>
</tr>
<tr>
<td>POLYAMIDE WOOL SILK CELLULOSIC HIGH VIOLET</td>
</tr>
<tr>
<td>POLYESTER HIGH BLUE</td>
</tr>
<tr>
<td>POLYESTER HIGH BLUE</td>
</tr>
<tr>
<td>POLYESTER HIGH NEUTRAL</td>
</tr>
<tr>
<td>POLYESTER HIGH BLUE VIOLET</td>
</tr>
</tbody>
</table>

### ANTIFOAMING AGENTS

**COLOR CENTER’s defoamers provide excellent foam control and maximum compatibility at the same time. The well balanced raw material base (organomodified siloxanes, organic oils & waxes, surface-modified silica) leads to a wide range of excellent defoamers, suitable for a multitude of industry applications.**

**DEFOAMING MECHANISM CRITICAL STEPS:**

1. Diffusion to the liquid/gas interface
2. Entering the micelle structure
3. Spreading
4. Rupture

**ANTIFOAMING AGENTS**

<table>
<thead>
<tr>
<th>COMPLEX 1646</th>
<th>Silicone antifoam of general application, highly effective.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLEX 1659</td>
<td>Silicone antifoam concentrate of general application.</td>
</tr>
<tr>
<td>ANTIESPUMANTE S159</td>
<td>Silicone antifoam of general application.</td>
</tr>
<tr>
<td>ANTIESPUMANTE D-200</td>
<td>Silicone antifoam concentrate of general application.</td>
</tr>
<tr>
<td>COMPLEX EV</td>
<td>Antifoam based on vegetable esters, highly biodegradable.</td>
</tr>
<tr>
<td>ANTIESPUMANTE SAE</td>
<td>Mineral oil and organic waxes based defoamer.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SHEAR STABILITY</th>
<th>ELECTROLYTE STABILITY</th>
<th>ACTIVE MATTER %</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIUM</td>
<td>MEDIUM</td>
<td>16</td>
</tr>
<tr>
<td>HIGH</td>
<td>MEDIUM</td>
<td>15</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>MEDIUM</td>
<td>30</td>
</tr>
<tr>
<td>HIGH</td>
<td>MEDIUM</td>
<td>24</td>
</tr>
<tr>
<td>HIGH</td>
<td>HIGH</td>
<td>100</td>
</tr>
</tbody>
</table>

- Enhanced sustainability
- Good handling characteristics
- Long term efficiency
- No negative side effects
- High compatibility
Our auxiliaries create value by improving process efficiency & reliability, safety, protection... while also quality, durability and appearance of goods.

We provide high-quality textile processing chemicals with less impact on the environment and with a world-class knowledge of pre-treatment and dyeing solutions.

SPECIFIC AUXILIARIES
CHEMICAL AUXILIARIES THAT PERFORM SPECIFIC FUNCTIONS IN PRE-TREATMENT/ DYEING PROCESSES

LUBRICANTS
- AMPLEX AS: Lubricant with dispersing properties.
- LUBRICANTE FL: Lubricant for all fibres.
- LUBRICANTE PS: Lubricant for all fibres, suitable for automatic dispenser systems.
- LUBRICANTE C GRANOS: Special lubricant for elastic fabrics.
- LUBRICANTE LDA: Special lubricant for elastic fabrics.

LEVELLING AGENTS
- ESTEROL I-30: Levelling agent. Special for printing washing off and redyeing.
- IGUALADOR CO: Levelling agent for cellulosic fibers.
- IGUALADOR ORT: Levelling agent for cellulosic fibers. Doesn’t block the fibre.
- ESTEROL G: Levelling agent for acid dyes. With dyestuff affinity.
- ESTEROL SB NUEVO: Levelling agent for acid dyes. With anti-bars effect.
- ESTEROL WD: Levelling agent for wool dyes.
- ESTEROL MG-32: Migrating agent for acrylic fibers.
- ESTEROL RDA: Retarding agent for acrylic dyes.
- ANTIMIGRANTE IS 200: Antimigrating agent for continuous dyeing.

DISPERSING AGENTS & CARRIERS
- DISPERSANTE US/P: Levelling-dispersing agent for disperse dyes.
- COTEMOLL RNF: Detergent and dispersant for scouring and dyeing simultaneous.
- ESTEROL 626-R: Migrating agent for disperse dyes.
- ESTEROL 313: Economic migrating agent for disperse dyes.
- ESTEROL BS-N LIQ.: Dispersant agent for disperse dyes.
- ESTEROL 1500 C: Carrier for dyeing polyester fabrics.
- ESTEROL BFA: Ecologic carrier for dyeing polyester fabrics.

pH REGULATORS
- AMPLEX TAF: Buffer for disperse dyes.
- COTEMOLL DIS: Alkaline buffer for scouring polyamide/elastane blends.
- ESTEROL 2095: Acid donor for polyamide dyeing.
- ESTEROL F: Acid donor for polyamide dyeing (suitable for pale shades).
- ESTEROL AC-P: Alkali donor for reactive dyeing.
- COMPLEX TA-5: Acid buffer for enzymatic blasting.

REDOX PRODUCTS
- AMPLEX 1001: Biodegradable sulfur-free reducing agent.
- REDOX PTD: Liquid reducing agent for reduction clearing of polyester fabrics.
- ANTIRREDUCTOR 1130: Anti-reducing agent stable in a wide range of pH (alkaline and acid).
- ANTIRREDUCTOR RD: Anti-reducing agent stable in acid pH.
- ANTIRREDUCTOR G LIQ: Anti-reducing agent stable in alkaline pH.
- ANTIRREDUCTOR G GRANOS: Concentrated anti-reducing agent stable in alkaline pH.

HYDROPHILIC AGENTS
- ESTEROL LFP: Lubricant and Hydrophilizing agent for polyester and polyamide fibres.
- ESTEROL PE: Antistatic and Hydrophilizing agent for polyester fibres.
- PRODUCTO HP: Hydrophilizing agent for synthetic fibres.

FIXING AGENTS
- ESTERFIX SEC: Formaldehyde free fixing agent for cellulosic fibers.
- ESTERFIX FRC-60: Fixing agent for cellulosic fibers with low Formaldehyde content.
- ESTERFIX DMP: Cracking fastness enhancer.
- ESTEROL RWA-D: Fixing agent for polyamide or wool fabrics.
- ESTERROL RWS: Fixing agent for polyamide or wool fabrics. Stable to concentrated acids.
Color Center offers a complete range of finishing chemicals for a wide range of textiles:

- Apparel
- Sports and leisure wear
- Decorative home textiles such as curtains, blinds, mattresses
- High performance materials for protective wear and uniforms
- Outdoor fabrics (awnings)
- Nonwovens used for interlining, filters, medical sterilization materials, automotive industry...

Textiles not only have to meet aesthetic requirements such as design, appearance, softness or easy-care, but in many cases should also comply with functional requirements that are attained at the stage of textile finishing, to name just a few:

- Waterproof
- Moisture management
- Fire resistant
- Dimension-stable
- Antimicrobial
- Long-term durability...

However, functionality & aesthetics alone is no longer enough to meet the requirements of millions of end-users. Sustainability and ecology also need to be taken into consideration for life at home, at work or outdoors to be more secure, efficient and healthier.

Eco-design and Sustainability is one of Color Center's main driven-forces for innovation.
FOR THE SOFTENING OF TEXTILE GOODS

ORGANIC SOFTENER DISPERSIONS
FOR THE SOFTENING OF TEXTILE GOODS

Proprietary finishing auxiliaries with performance profiles adjusted to various specific requirements.

Softeners can be adjusted depending on the softener and textile substrate type. From aqueous emulsions or dispersions, organic softeners are deposited onto the fibers, allowing their application by padding or by the exhaust method.

Hand, softness, hidrophilicity and countless other properties can be adjusted depending on the softener and textile substrate type. Our quaternaries are substantive to cellulosic fibers and negatively charged textile substrates in general.

SOFTENERS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>PH (10%)</th>
<th>Viscosity [cP] (25°C)</th>
<th>Concentration</th>
<th>Iontopy</th>
<th>Appearance</th>
<th>Hydrophilicity</th>
<th>Handle</th>
<th>Anti-Static</th>
<th>Anti-Ozonate</th>
<th>Padding</th>
<th>Emulsification</th>
<th>Coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>R22</td>
<td>Oleo esterque, easy handling at low temp.</td>
<td>90</td>
<td>3% (&lt;10000)</td>
<td>X</td>
<td>cationic</td>
<td>amber viscous liquid</td>
<td>3</td>
<td>soft and fresh</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>AG/85</td>
<td>Synergic mixture, handling properties even at low temp.</td>
<td>85</td>
<td>2.5% (5%)</td>
<td>soft paste</td>
<td>X</td>
<td>cationic</td>
<td>soft paste</td>
<td>2p</td>
<td>soft and fresh</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>AG/90</td>
<td>Partially hydrolyzed tallow ester.</td>
<td>90</td>
<td>2.5% (5%)</td>
<td>paste</td>
<td>X</td>
<td>cationic</td>
<td>white paste</td>
<td>2p</td>
<td>soft and fresh</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>SURF/SANTE</td>
<td>Synergic mixture, seeving and stability of all conditions.</td>
<td>15</td>
<td>4.5% (&lt;2000)</td>
<td>white dispersion</td>
<td>X</td>
<td>cationic</td>
<td>white dispersion</td>
<td>3</td>
<td>soft and grey</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>X</td>
</tr>
<tr>
<td>DD/R4</td>
<td>Synergic mixture of fatty esters.</td>
<td>18.5</td>
<td>5% (&lt;100)</td>
<td>cationic</td>
<td>3</td>
<td>soft and full</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>ROMSOFT_</td>
<td>Synergic mixture of fatty esters.</td>
<td>10</td>
<td>4.5% (&lt;100)</td>
<td>X</td>
<td>non ionic</td>
<td>white emulsion</td>
<td>3</td>
<td>soft and smooth</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>VL/N</td>
<td>Preparation of wax and polysialones in a pasty form.</td>
<td>15</td>
<td>4% (&lt;100)</td>
<td>X</td>
<td>non ionic</td>
<td>white emulsion</td>
<td>3</td>
<td>soft and full</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>FF/New</td>
<td>Softener for acid fibre, pleasantly handle. Facilitates the ranging and extending conditions.</td>
<td>13.5</td>
<td>4% (&lt;100)</td>
<td>X</td>
<td>cationic</td>
<td>white dispersion</td>
<td>3</td>
<td>Soft and grey</td>
<td>2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CST</td>
<td>Dispersion of a fatty acid derivative.</td>
<td>21</td>
<td>4% (&lt;1000)</td>
<td>slightly cationic</td>
<td>white dispersion</td>
<td>3</td>
<td>soft and full</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td></td>
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<tr>
<td>CFR</td>
<td>Dispersion of fatty acid derivative.</td>
<td>16</td>
<td>4.5% (100%)</td>
<td>X</td>
<td>non ionic</td>
<td>white emulsion</td>
<td>3</td>
<td>soft and full</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>PES</td>
<td>Synergic mixture of fatty acid and sebacic acid.</td>
<td>21</td>
<td>5% (-)</td>
<td>X</td>
<td>cationic</td>
<td>white dispersion</td>
<td>3</td>
<td>warm &amp; smooth</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>LNM/P</td>
<td>Paraffin macromulsion. Reduces the friction coefficients fiber - fiber and fiber - metal.</td>
<td>37</td>
<td>7% (&lt;100)</td>
<td>X</td>
<td>cationic</td>
<td>white dispersion</td>
<td>3</td>
<td>fresh &amp; smooth</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ROMSOFT</td>
<td>Paraffin cationics - macromulsion.</td>
<td>50</td>
<td>4% (&lt;1000)</td>
<td>X</td>
<td>cationic</td>
<td>macro emulsion</td>
<td>3</td>
<td>fresh &amp; pleasant</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>GC/94</td>
<td>Polylysine wax macromulsion.</td>
<td>25</td>
<td>5% (&lt;100)</td>
<td>X</td>
<td>cationic</td>
<td>macro emulsion</td>
<td>3</td>
<td>smooth &amp; supple</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>EMULSOFT</td>
<td>Polylysine wax macromulsion.</td>
<td>37</td>
<td>8% (&lt;1000)</td>
<td>X</td>
<td>non ionic</td>
<td>macro emulsion</td>
<td>3</td>
<td>smooth &amp; supple</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>PES/30G</td>
<td>Highly reactive polylysine wax macromulsion.</td>
<td>36</td>
<td>10% (100%)</td>
<td>non ionic</td>
<td>emulsion</td>
<td>macro emulsion</td>
<td>3</td>
<td>smooth &amp; supple</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>ROMSOFT</td>
<td>Mixture of fatty acid esters.</td>
<td>30</td>
<td>5% (&lt;100)</td>
<td>X</td>
<td>non ionic</td>
<td>yellowish liquid</td>
<td>3</td>
<td>smooth &amp; supple</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>FLEK4910A</td>
<td>Mixture of fatty alcohols derivatives.</td>
<td>58</td>
<td>5% paste</td>
<td>X</td>
<td>non ionic</td>
<td>white paste</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>X</td>
<td>-</td>
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<tr>
<td>ROMSOFT</td>
<td>Mixture of fatty alcohols derivatives, caprolactam and caprolactam.</td>
<td>45</td>
<td>8% paste</td>
<td>X</td>
<td>non ionic</td>
<td>white paste</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Our quaternaries are substantive to cellulosic fibers and negatively charged textile substrates in general.**

---

**Fatty alkyd chain**

From aqueous emulsions or dispersions, organic softeners are deposited onto the fibers, allowing their application by padding or by the exhaust method.

Hand, softness, hidrophilicity and countless other properties can be adjusted depending on the softener and textile substrate type.
TEXTILE ENHANCERS: CUTTING-EDGE TECHNOLOGY IN SILICONE POLYMERS AND EMULSIONS

- Wash-fastness
- Dry-clean
- Hydrophilicity
- Natural
- Non-yellowing
- Silky
- Microstructure
- Chemistry
- pH-stable
- Shear-stable
- Silicone
- Polymer
- Design
- Soft
- Smooth
- Elastic

COMPARISON OF PRODUCT PROPERTIES ON COTTON FABRIC

- Hydrophilicity drop penetration time (seconds)

DESIGNING THE RIGHT POLYMER MICROSTRUCTURE TO GET THE BEST PERFORMANCE
<table>
<thead>
<tr>
<th>SILICONA CENTER</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEP</td>
<td>LUBRICATION</td>
</tr>
<tr>
<td></td>
<td>EXHAUSTION</td>
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<tr>
<td></td>
<td>COATING</td>
</tr>
<tr>
<td>TH5 NUEVA</td>
<td></td>
</tr>
<tr>
<td>M4X CONC</td>
<td></td>
</tr>
<tr>
<td>ZM ULTRA CONC</td>
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</tr>
<tr>
<td>UM</td>
<td></td>
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<tr>
<td>MS CONC</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td></td>
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<td></td>
<td>PADDING</td>
</tr>
<tr>
<td></td>
<td>COMPLEX RTN</td>
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<td>NUEVO</td>
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<td>COMPLEX RTN-FF</td>
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<tr>
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<td>PAB</td>
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<td>PU ULTRA CONC</td>
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<td>HC EXT. CONC.</td>
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<td>STQ-40</td>
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<td>PME-1810</td>
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<td>HPS 6</td>
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<table>
<thead>
<tr>
<th>SOLID CONTENT (%)</th>
<th>IONICITY</th>
<th>PARTICLE SIZE</th>
<th>HANDLE</th>
<th>LOW YELLOWING</th>
<th>HIGH HEAT RESISTANCE</th>
<th>ELASTOMERICITY</th>
<th>DURABILITY</th>
<th>LUBRICATION (SEWABILITY)</th>
<th>pH STABILITY</th>
<th>SHEAR STABILITY</th>
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<tr>
<td>40</td>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>X</td>
</tr>
</tbody>
</table>

1: Low · 2: Medium · 3: Good · 4: Excellent
Color Center Polymers: sustainable cutting-edge technology.

Developing high-quality coatings that have less impact on the environment is our goal. Our polymer range will help you meet the most demanding requirements. From high quality melamines, glyoxals and waterborne acrylic emulsions to specialty low-VOC polyurethanes and crosslinking agents.

In addition to technical support, we offer a sound understanding of our customers and the markets we serve. Do you need a tailor-made solution? We will develop it for you in a collaborative environment.

FASHION POLYMERS
Optimal balance of aesthetics, comfort and durability.
Key benefits:
- Chemical and mechanical resistance
- Outstanding handle and appearance for topcoats and base coats
- Low-VOC

RESINS & CROSS-LINKING AGENTS
SUSTAINABLE POLYMERS THAT ENHANCE PERFORMANCE
POLYURETHANES-MELAMINES AND GLYOXALS-ACRYLIC EMULSIONS-CROSSLINKERS
One of our most active fields of research is the development of easy-care resins for high-end resin finishing:

- Washfast smoothness
- Washfast softness

Easily-care resins for high-end resin finishing:

- Especially suitable for manufacturing paper and packaging adhesives with high setting speed. Adhesives used for laminate furniture (PVC and impregnated paper) can be formulated as well. It is also applied in agriculture, public works, geotextiles.
- Melamine-formaldehyde copolymer
- Inorganic salt
- Aliphatic blocked isocyanate

Melamine has become an integral part of our daily lives. It is used in laminates, dinnerware, adhesives and specialty coatings for paper and textiles.

One of our most active fields of research is the synthesis of melamine with ultra low formaldehyde content.

Easy-care resins for high-end resin finishing:

- Excellent wash and wear properties
- No ironing or easy to iron
- Shape memory
- Washfast softness
- Washfast smoothness
- Wearing comfort

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Easy-care resins for high-end resin finishing:
WATER AND OIL REPELLENTS EXPERTISE IN WATER AND OIL REPELLENCY

Nowadays different types of finishes are used to confer Durable Water Repellency properties (DWR) to textiles, we can classify them by type of chemical used:

- Per- and polyfluorinated products (fluoropolymers)
- Hydrocarbons & wax emulsions
- Modified melamine resins
- Silicones
- Dendrimers & 3D polymers

The fluorocarbons are a type of fluoropolymer whose unique microstructure gives very special properties to the treated fabrics: durable water & oil repellency (DWOR), soil release, stain resistance.

We provide customer solutions through responsive product & technical support.

Best performance
Wide application
Maintaining soft hand
Cost / performance

Selection of proper grade
Recommending finishing recipes
Technical support
Trouble shooting

APPLICATION OF COLOR CENTER’S DWR AND DWOR RANGE

WATER REPELLENTS FLUORINE FREE

UNIPERL Z
Water repellent for all type of fibres, zirconium salt paraffin based.

UNIPERL AL
Water repellent for all type of fibres, aluminium salt paraffin based.

UNIPERL OFF
Permanent water repellent for all type of fibres. Based on fatty derivatives. Extender for fluorocarbons.

PRODUCTO FMP
Permanent water repellent for all type of fibres. Based on synergistic mixture of fatty acid derivatives and paraffins.

CENTERGARD D-ECO
Permanent water repellent based on 3D polymer technology.

CENTERFOB HN
Permanent water repellent based on reactive polydimethysiloxane.

CENTERFOB HC
Permanent water repellent based on reactive polydimethysiloxane.

FLUOROCARBONS

CENTERGARD BWR CONC
Fluorocarbon CB, general application. High concentration.

CENTERGARD 50/BWR
Fluorocarbon CB, recommended for awning and synthetic fibers.

CENTERGARD 50/BWR-6
Fluorocarbon C6, recommended for awning and synthetic fibers.

CENTERGARD FR/1
Fluorocarbon CB, special use for awning. Maximum hydrophobicity.

CENTERGARD 24 BR
Fluorocarbon CB, special use for awning and synthetic fibers. High concentration.

CENTERGARD ATR
Fluorocarbon CB for cotton and blends.

CENTERGARD 423B
Fluorocarbon C6, general application. Low temperature condensation.

CENTERGARD RSX
Fluorocarbon C6, does not affect flame retardant properties (recommended for Trevira CS).

AMPLEX NI
Fluorocarbon CB, nonionic, for general application.

CENTERGARD CT
Fluorocarbon CB, recommended for Stain Release finishing.

CENTERGARD D6i
Fluorocarbon C6 and 3D polymers, general application.
The fire triangle shows that 3 factors must coincide in order to propagate a fire: the fuel, the air and the heat. It’s enough to interfire on one of those factors to break the cycle.

Color Center’s focus on ‘greener’ chemistry results in a small but efficient range of ECO-designed FR products that are globally available wherever halogen-free FR solutions are needed.

Flame retardants are chemicals which are added to combustible materials to render them more resistant to ignition. The protection of human body is essential in situations of risk, heat or flames. With this mind, Color Center, S.A., offers our FR range of products, in order to provide the required levels of safety and protection.

Flame retardants are chemicals which are added to combustible materials to render them more resistant to ignition. The protection of human body is essential in situations of risk, heat or flames. With this mind, Color Center, S.A., offers our FR range of products, in order to provide the required levels of safety and protection.

Brominated flame retardants (BFRs) have been used commercially for several decades to fire-proof plastics, textiles and electronics.

Environmental concern related to the use of BFRs has been growing in recent years since some BFRs have shown to be persistent, bioaccumulative, toxic, and undergo long-range atmospheric transport.
ANTIESTATIC AGENTS

AMPLEX S-3736
Cationic fatty acid derivative. Anti-static agent for cellulose and synthetic fibers. High antistatic effect on acrylic, cellulose and polyester fibers. Application by immersion, spray, exhaustion or padding onto the substrate. The kind of fiber (flock, carded, piece) is scale to hard water, electrolytes and acids under standard conditions.

AMPLEX S-100
Non ionic fatty acid derivative. Emulsifier and non ionic detergent with dispersing and antistatic properties for synthetic fibers. Very good lubricant effect, reduces the metal-fiber friction ratio and facilitates the napping and emerizing operations improving flexibility and smoothness. Doesn’t modify the shade of dyes.

ANTIESTATIC AGENTS

AMPLEX TICO H
Cationic fatty acid derivative. Anti static agent for cellulose and synthetic fibers. High antistatic effect on acrylic, cellulose and polyester fibers. Application by immersion, spray, exhaustion or padding onto the substrate. The kind of fiber (flock, carded, piece) is scale to hard water, electrolytes and acids under standard concentrations.

AMPLEX TICO P-552
Non ionic fatty acid derivative. Emulsifier and non ionic detergent with dispersing and antistatic properties for synthetic fibers. Very good lubricant effect, reduces the metal-fiber friction ratio and facilitates the napping and emerizing operations improving flexibility and smoothness. Doesn’t modify the shade of dyes.

ANTIESTATIC AGENTS

AMPLEX M-3736
Cationic fatty acid derivative. Anti static agent for cellulose and synthetic fibers. High antistatic effect on acrylic, cellulose and polyester fibers. Application by immersion, spray, exhaustion or padding onto the substrate. The kind of fiber (flock, carded, piece) is scale to hard water, electrolytes and acids under standard conditions.

AMPLEX TICO T
Non ionic fatty acid derivative. Emulsifier and non ionic detergent with dispersing and antistatic properties for synthetic fibers. Very good lubricant effect, reduces the metal-fiber friction ratio and facilitates the napping and emerizing operations improving flexibility and smoothness. Doesn’t modify the shade of dyes.

ANTIESTATIC AGENTS

AMPLEX TICO S-100
Cationic fatty acid derivative. Anti static agent for cellulose and synthetic fibers. High antistatic effect on acrylic, cellulose and polyester fibers. Application by immersion, spray, exhaustion or padding onto the substrate. The kind of fiber (flock, carded, piece) is scale to hard water, electrolytes and acids under standard concentrations.
**SANITIZING AGENTS**

Color Center's sanitizing agents provide safe and effective protection against the microbiological spoilage, extending the life of products and treated articles.

- Waterborne polymers & resins
- Coatings
- Detergency
- Textile finishing
- Wax & fatty emulsions
- Paints & lacquers
- Plastisol
- Industrial & domestic wastewater

**Broad preservative spectrum for the most varied products and articles:**
- effective protection against:
  - Mites
  - Algae
  - Bacteria
  - Yeasts
  - Fungi

**Effective protection against:**
- Waterborne polymers & resins
- Industrial & domestic wastewater
- Paints & lacquers
- Textile finishing
- Wax & fatty emulsions

**Microencapsulated and Controlled Release Products**

Microencapsulation allows a controlled release of fragrances and active ingredients onto new clothing and furnishing fabrics. Microcapsules are anchored on the fibers allowing a controlled release of actives when the polymeric wall fractures. Color Center can provide those long-lasting finishes you desire, just IMAGINE!!!

For durability through multiple washing and wearing cycles we have designed specific binders:

- RESINA CENTER BC
- RESINA CENTER PKN (polyurethane nanoemulsion)

Microcapsules are generally applied during the finishing process, by exhaustion or padding, they can also be applied by spray. Capsules have been dermatologically tested and found to be safe to skin. They have also been eco-tested and when applied to textiles will pass the Oekotex 100 standard.

**Microencapsulated Sanitizing Agents**

- CENTERBAC AG
- CENTERBAC K-30
- CENTERBAC 29-BTC A.C.
- CENTERBAC DC4 DPP
- CENTERBAC IM
- CENTERBAC M
- CENTERBAC VI-6
- CENTERBAC RW
- CENTERBAC ZF30
- CENTERBAC TP-30

**UNIBACTER**

- Synergistic mixture of heterocyclic compounds, nonionic. Provides a lasting effectiveness against fungi, bacteria and algae. Applicable on goods intended canopies, awnings, fabric for tents, shower curtains and in general, all those items which are subjected to weathering or water contact.

- Special polymer, antimicrobial for textiles. Cationic. It has a wide spectrum of activity against gram-positive and gram-negative bacteria, fungi, algae and yeast, preventing deterioration and discoloration of the substrate. It can be used in the following textile fields: textile shirt, upholstery, sheets, blankets, underwear, socks, towels, disposable diapers, awning, insoles for shoes, shower curtains, etc.

- Antimicrobial and fungicide for plastics whose active ingredient is 4,5-Dichloro-n-octyl - 4 - Isothiazolin-3-one. It works effectively at low concentrations, providing long-term protection against bacteria and fungi on treated articles. It also helps prevent odors, staining and premature deterioration of the article due to the growth of microorganisms.

- Fungicidal agent for coatings and textile finishes whose active ingredient is a mixture of heterocyclic compounds. The main fields of application are protection against the formation of molds of all kinds of goods intended for canopies, awnings, fabric for tents, shower curtains and in general, outdoor items subjected to weathering or in contact with water.

- Mosquitoes repellent agent whose active ingredient is a compound based on synthetic pyrethroids. It is a product developed to repel insects like mosquitoes, mites, moths, termites, fleas, ants, lice... Confers fast-ness to washing at 40°C to fabrics made with synthetic fibres and its mixture with natural fibres when used in conjunction with special acrylic binders.

- Heterocyclic derivative used as a special preservative agent for enzyme preparations. Avoid the alterations produced by the microorganisms in the enzyme preparations without affecting the activity thereof.

- Heterocyclic derivative used as a preservative agent for surfactants and emulsions. It is designed to avoid the alterations produced by the microorganisms in surfactants, detergents, emulsions of oils, greases, pastes, etc., either in storage or during textile finishing.

- Fluid aqueous dispersion of zinc pyrithione. Provides antibacterial and antifungal properties on home textiles, carpets wipes, latex foams, elastomers, mattresses, filters, etc. It can be applied to any type of textile fiber although its application is not recommended on pure polypropylene fibers.

- Synergistic mixture of quaternary ammonium compounds, remains effective over a wide pH range: 3 - 10 and temperature. It has a broad spectrum of activity, being effective against bacteria, algae, fungi and yeasts. It has cationic surfactant character. It is compatible with most plastic materials: PVC, PTFE...
ENZYMES

CREATING TEXTILES USING THE BEST TECHNOLOGY AVAILABLE

SAVE TIME, WATER, ENERGY AND CHEMICALS WHEN USING ENZYMES IN THE TEXTILE PRODUCTION

Chemicals used in industrial processes are one of the most severe threats to nature and man today.

By using enzymes we can maintain the living standards we have today and at the same time preserve the environment for our children. And enzymes do not just replace chemicals. They also reduce the consumption of raw materials, energy and water, giving real benefits to both the environment and industry.

Color Center offers many specialized enzymatic compounds for textile industry processes: biopolishing, desizing, bleach clean-up, bioscouring, denim finishing, fashion... helping manufacturers to produce goods of higher quality, save energy and help ensure a safer working environment.

Enzymes are biologically active proteins which are able to catalyze biochemical reactions. Like all other proteins, enzymes are made of amino acids. Each enzyme is made of between a hundred and upwards of a million amino acids linked by chemical bonds in a specific sequence that determines 3D folding and therefore its function.
ENZYMES

UNIZIM PWO Removes by enzymatic hydrolysis the lint and peeling which are caused by friction in WO fibers and mixtures thereof. Suitable for overflow, Jett, etc.,...

UNILITE I-S Eco-designed product, specifically formulated and buffered for Denim discoloration, does not affect the lycra.

UNILITE DCF Indigo fadding enzyme at room temperature. Designed for a wide range of effects on denim, significant advantages over other techniques based on hypochlorite.

UNIZIM BIO Particularly suitable for the bio-preparation processes of yarn or cotton and mixtures thereof. Optimum results regarding hydrophilicity and demineralization without loss of strength or DP...

UNIZIM COMBI Cellulase + catalase. Enzymatic product specifically designed for the biopolishing process, peroxide removal and dyeing in one bath. It helps to save energy, time and water, ensuring high quality fabrics.

UNIZIM CRO Cellulase + alpha-amylase. Achieves excellent abrasion effect on the denim simultaneously to the preparation process, minimizes indigo backstaining.

UNIZIM MPD Alpha-amylase + pectinase. Bioscouring and desizing in one step, without adding detergents, wetting agents, or pH regulators.

UNIZIM N-10/C Powder formulation of a neutral cellulase together with buffer and antibackstaining. For use in jeans abrasion (stonewashing).

UNIZIM DR Used for biopolishing, it can be used before, during or after dyeing. Stonewashing for denim.

UNIZIM D-LT Designed for biopolishing, it can be used before, during or after dyeing. Also for denim.

UNIZIM D-LT/2 Neutral cellulase containing antibackstaining. Recommended for biopolishing, it can be used before, during or after dyeing.

UNIZIM CNB Plus Recommended for biopolishing. The product is suitable for working in garment and fabric (piece) facilities (jet, overflow, etc.). Excellent price/quality ratio.

UNIZIM LVM Recommended for biopolishing. The product is suitable for working in garment and fabric (piece) facilities (jet, overflow, etc.,...).

UNIZIM TLC Different concentrations available.

UNIZIM CLB

UNIZIM ULTRA 50 Specifically decomposes the residual hydrogen peroxide present on tissue and in the treatment bath into no active oxygen and water.

UNIZIM EFR-15 Overdosing of the product can not affect the dyeing nor tissue. Different packaging and concentrations.

UNIZIM LXE Different concentrations available.

UNIZIM XT-L Keeps effectiveness over a broad pH range. No negative effects on fabric resistance thus improving quality.

UNIZIM D-LT/130 Wide range of working temperatures. Different concentrations available.

UNIZIM H conc. Enzyme + detergent. Keeps effectiveness over a broad pH range. No negative effects on fabric resistance thus improving quality.

UNIZIM TVX Wide range of working temperatures. Different concentrations available.

UNIZIM PS-L Alpha-amylase enzyme. Designed specifically for Pad-Steam.

UNIZIM BIO

UNIZIM COMBI

UNIZIM CRO

UNIZIM MPD

UNIZIM N-10/C

UNIZIM DR

UNIZIM D-LT

UNIZIM D-LT/2

UNIZIM CNB Plus

UNIZIM LVM

UNIZIM TLC

UNIZIM CLB

UNIZIM ULTRA 50

UNIZIM EFR-15

UNIZIM LXE

UNIZIM XT-L

UNIZIM D-LT/130

UNIZIM H conc.

UNIZIM TVX

UNIZIM PS-L

APPLICATION PROCESS

APPEARANCE FAMILY pH T(Cº) CONTINOUS DISCONTINOUS GARMENT DENIM

liquid protease 10 40 - X - -

powder laccase 4-5 60-70 - - X X

powder peroxidase 4.5-5 25-35 - X - X

liquid pectinase 6-9 50-60 X X - -

liquid combi 4-8 50-60 - X X X

powder combi 6.5-75 40-55 - - X X

powder combi 6.5-75 40-55 - - X X

liquid combi 6-8 40-60 X X X -

powder neutral cellulase 6-75 45-60 - - X X

powder neutral cellulase 6-75 50-60 - - X X

liquid neutral cellulase 5-8 50-60 - X X X

liquid neutral cellulase 5-8 35-45 - - X X

liquid neutral cellulase 5-9 35-45 - X X X

liquid neutral cellulase 5-8 50-60 - X X X

liquid acid cellulase 5-5.5 50-55 - X X -

liquid catalase 6-8 40-60 X X X -

liquid alpha-amylase 5-10 20-85 X X X -

liquid alpha-amylase 5.5-75 40-80 X X X -

liquid alpha-amylase 5.5-75 80-115 X X - -
The discharge of untreated wastewater produces negative environmental impacts in receiving watercourses, depending on the concentration of pollutants containing these waters.

**Color Center** offers a full range of Chemicals for Water Treatment, such as coagulants, flocculants (solid and emulsion polyelectrolytes), defoamers, odour suppressants, biological solutions, nutrients, ...

Coagulants destabilize a colloidal suspension. They can be defined like products with a high charge density which stick on the surface of the colloidal particles by neutralizing its charge, preventing repulsion between them and therefore, ensuring aggregation. Coagulants are usually metal salts or low molecular weight polymers.

The flocculants are high molecular weight polymers that are capable of trapping various colloidal particles in its polymer chain.
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FOR SPAIN AND PERU

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