



**COLOR CENTER**

Colorantes y Productos Químicos  
Dyes & Chemical Products

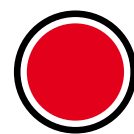


PRE-TREATMENT  
AND DYEING

FINISHING

ENZYMES

WASTEWATER  
TREATMENT



**COLOR CENTER**

Colorantes y Productos Químicos  
Dyes & Chemical Products



## 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.

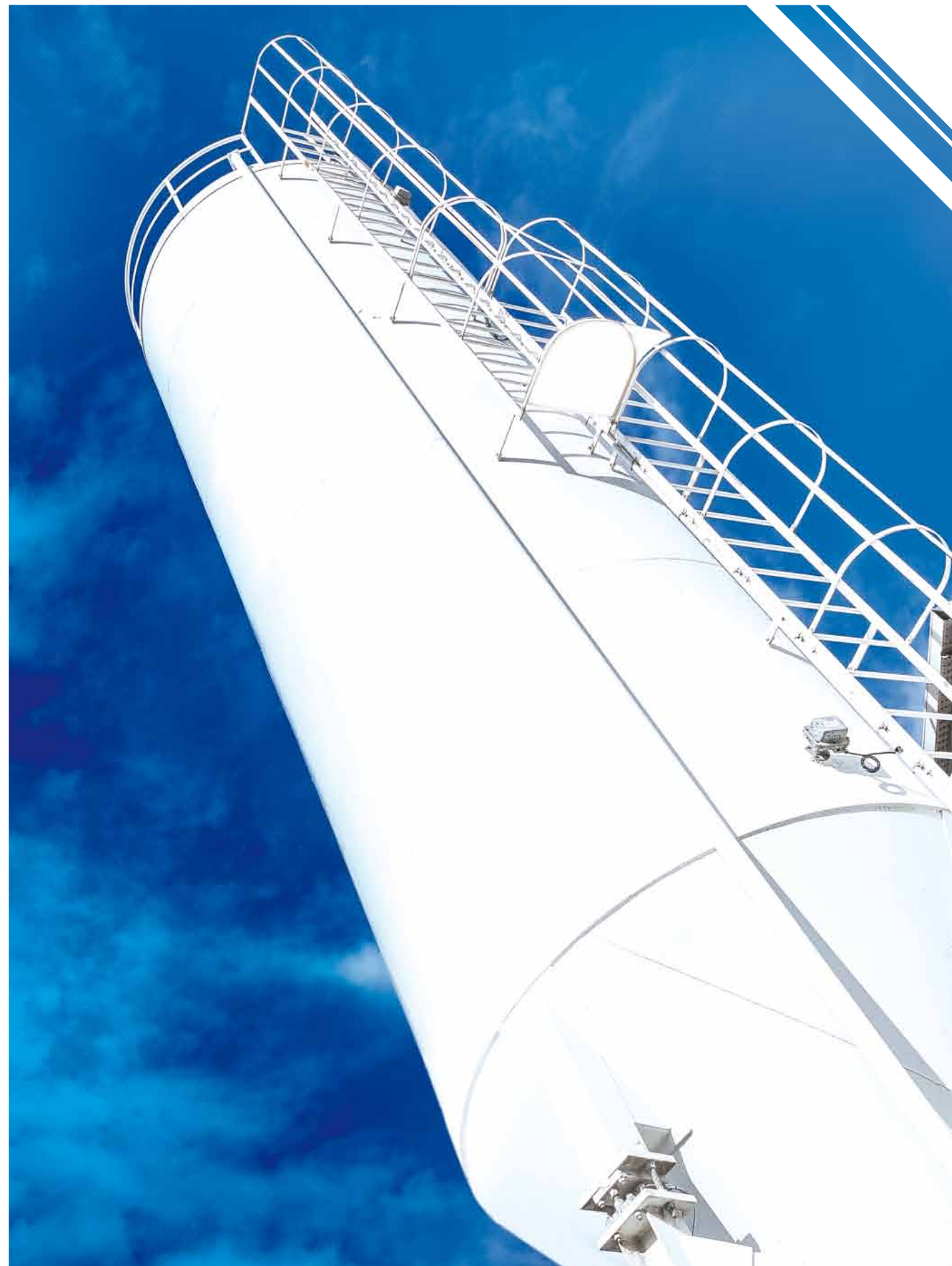
We work systematically in the development, acquisition and design of new materials and Nano-materials that allow us to offer more sustainable products with an improved toxicological profile, while maintaining the most demanding level of performance and quality required by the current market.

## 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
  - Hydrophilic agents
- 19 Lubricants
  - Levelling agents
  - Dispersing agents & carriers
  - pH regulators
  - Redox products

## 20 FINISHING

- 22 Softeners
- 24 Silicones
- 28 Resins and cross-linking agents
- 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





- WETTING
- WASHING
- SOAPING
- BLEACHING
- REDUCING
- LUBRICATING
- SEQUESTERING
- HYDROPHILIZING
- OXIDIZING
- FIXING

- BUFFERING
- LEVELLING
- DISPERSING
- DEFOAMING

## 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):

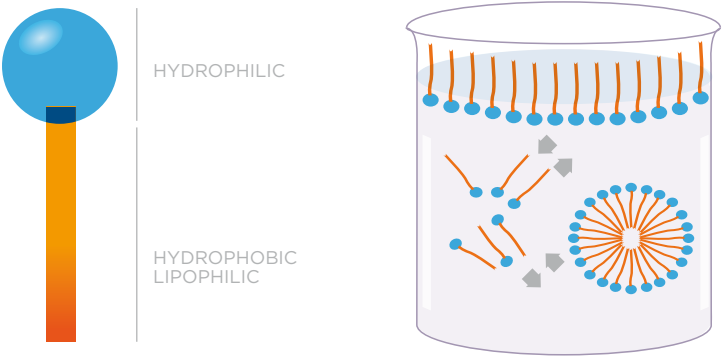
- Preparation of complete recipes using our range of textile auxiliaries and dyestuffs.
- Development of processes and products, matched to the individual customer requirements.
- Simulation of pretreatment and dyeing processes in the laboratory.
- Carrying out tests according to national, international as well as specific customer standards (spectroscopic analysis -FTIR-, fastnesses, microscopic analysis, microbiologic testing...).

# DETERGENTS & WETTING AGENTS

## EXPERTISE IN SURFACTANT TECHNOLOGY

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.

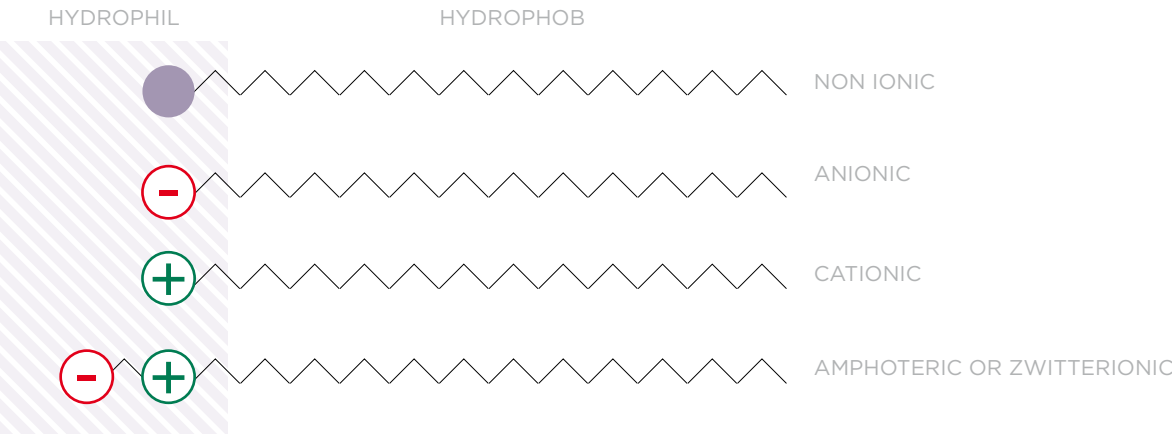


Surfactants contain both a hydrophobic and a hydrophilic section, and as a combination of these two differing characteristics within the molecule, many differing properties can be achieved. We have products that produce high or low foam.

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.

## SURFACTANTS STRUCTURE & PROPERTIES

In terms of inonicity there are 4 kinds of surfactants:



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

## WETTING AGENTS

		PREPARATION	MERCERIZATION	DYEING	BLEACHING	FINISHING
COMPLEX F-908	Nonionic wetting, deaerating, high concentration of general application.	X	-	X	X	X
COMPLEX FD	Nonionic wetting, deaerating of general application.	X	-	X	X	X
COTEMOLL MR	Fast anionic wetting for preparation and dyeing of cotton fiber.	X	-	-	X	-
COTEMOLL SAS	Fast anionic wetting for preparation and reactive dye and vat to the continuous application.	X	-	X	-	-
COTEMOLL HC NUEVO	Wetting - lubricant for dyeing cotton.	-	-	X	-	-
COTEMOLL MGK	Wetting agent for mercerising and causticising processes.	-	X	-	-	-
COTEMOLL WET FL	Fluorinated wetting agent for coating pastes.	-	-	-	-	X
COMPLEX 2000 ULTRA	Deaerating and defoaming, wetting.	X	-	X	X	-
COTEMOLL MD	Wetting agent for finishes. It does not affect the properties of fluorocarbon.	-	-	-	-	X

	CONTINUOUS	DISCONTINUOUS	CELLULOSIC	WOOL	PES	PAN	PA
COMPLEX F-908	X	X	X	X	X	X	X
COMPLEX FD	X	X	X	X	X	X	X
COTEMOLL MR	-	X	X	X	-	-	-
COTEMOLL SAS	X	X	X	-	-	-	-
COTEMOLL HC NUEVO	-	X	X	-	-	-	-
COTEMOLL MGK	X	-	X	-	-	-	-
COTEMOLL WET FL	X	X	X	X	X	-	X
COMPLEX 2000 ULTRA	-	X	X	X	X	-	X
COTEMOLL MD	X	-	X	X	X	X	X

	SOLID CONTENT %	IONIC CHARACTER	CONTAINS SILICONE	CONTAINS SOLVENT	DEAERATING PROPERTIES	FOAM
COMPLEX F-908	93	N	-	X	X	0
COMPLEX FD	51	N	-	X	X	0
COTEMOLL MR	27	A	-	-	-	3
COTEMOLL SAS	30	A	-	-	-	1
COTEMOLL HC NUEVO	45	A/N	-	-	-	0
COTEMOLL MGK	34	A	-	-	-	0
COTEMOLL WET FL	25	A	-	-	-	0
COMPLEX 2000 ULTRA	20	A	X	-	X	0
COTEMOLL MD	3	A	-	-	-	0

A: Anionic · N: Non ionic · ANF: Amphoteric · 0: No foam · 1: Low foam · 2: Medium foam · 3: High foam

DETERGENTS		APPLICATION			PROCESS		FIBER TYPE					PRODUCT PROP.		
		PREPARATION	DYEING	BLEACHING	CONTINUOUS	DISCONTINUOUS	CELLULOSIC	WOOL	PES	PAN	PA	SOLID CONTENT %	IONIC CHARACTER	FOAM
COTEMOLL TOB	Detergent for pretreatment, desizing and washing of cotton, synthetic fibers and blends.	X	-	-	-	X	X	-	X	-	-	30	A/N	2
PRODUCTO DSC	Detergent - wetting - sequestering for scouring and desizing of cotton Padding process.	X	-	-	X	-	X	-	-	-	-	36	A/N	2
COTEMOLL PC ULTRA CONC	Detergent - wetting concentrate for scouring and bleaching of cotton and blends.	X	-	X	-	X	X	-	-	-	-	85	N	1
COTEMOLL DNS	Detergent and wetting agent for the pretreat-ment of cotton and its polyester blends.	X	-	X	-	X	-	-	-	-	-	38	N	1
COTEMOLL MFA	Special wetting-detergent agent with emulsifying properties for continuous pretreatment steps of cellulosic fibres and their blends with synthetics.	X	-	X	X	-	X	-	-	-	-	80	A/N	1
COTEMOLL BSL NUEVO	Multifunctional product (organic stabilizer, detergent, emulsifier and sequestrant). Good wetting and low foaming power.	-	-	X	-	X	X	-	-	-	-	22	A	1
COTEMOLL E2	Detergent - bleach activator with hydrogen peroxide.	-	-	X	-	-	X	-	-	-	-	30	N	-
COTEMOLL SIT	Emulsifier detergent of paraffins and silicones.	X	-	-	X	X	X	-	-	-	X	30	ANF	3
COTEMOLL D-750	General purpose detergent with biodegradable solvents.	X	-	-	-	X	X	-	-	-	X	35	A/N	1
PRODUCTO PCB 202-S	Solvent detergent for pretreatment of all kind of fiber.	X	-	-	X	X	X	-	X	-	-	60	N	1
COTEMOLL TS	Dispersing and accelerator of polyester dyeing diffusion.	X	-	-	-	-	X	X	X	-	X	100	A/N	1
AMPLEX HTA	Detergent - dispersant for simultaneous scouring and dyeing PES/CV.	-	X	-	-	X	-	-	X	-	-	40	A/N	1
COTEMOLL MWS	Detergent - dispersant wich facilitates the removal and prevents deposits of oligomers during the dyeing process.	-	X	-	-	X	-	-	X	-	-	25	A	2
COTEMOLL CWP	Detergent-dispersant antibackstaining in washing denim.	-	-	-	-	-	-	-	-	-	-	30	A/N	2
COTEMOLL PS LÍQUIDO	Detergent preparation.	-	-	-	-	X	-	X	-	-	-	20	A	3
COTEMOLL NI	Detergent - wetting nonionic generally applicable to all types of fiber.	X	-	X	X	X	X	X	-	X	-	85	N	3
COMPLEX EX	Detergent for pretreatment, desizing and dyeing of cotton, synthetic fibers and blends.	X	X	X	X	-	X	X	-	-	-	74	A	3
COTEMOLL RV	Detergent for soaping of prints polyamide.	-	X	-	-	-	X	-	-	-	-	27	N	2
COTEMOLL DC	Wetting, detergent and Special Degassing for coil.	X	X	X	-	X	X	-	-	-	-	40	A/N	0
COTEMOLL NFS	Wetting, detergent general application, low foam.	X	X	X	-	X	X	-	X	-	-	30	N	0
DETERGENTE Q	Detergent for cleaning of cylinders, boxes and stamping dies.	-	-	-	-	-	-	-	-	-	-	30	A	-
AMPLEX SDM	Product for cleaning dyeing machinery.	-	-	-	-	X	-	-	-	-	-	25	A	-
COTEMOLL 803-C	Detergent for washing ready-made garment.	X	X	-	-	-	X	X	X	-	-	30	N	2
COTEMOLL MH40	Anionic detergent with wetting properties, emulsifier and re-moisturizes.	X	-	-	X	-	X	-	-	-	-	25	A	3
COTEMOLL N CONC.	Anti-precipitant for dyeing acrylic fibers.	-	X	-	-	-	-	-	-	X	-	14	N	3

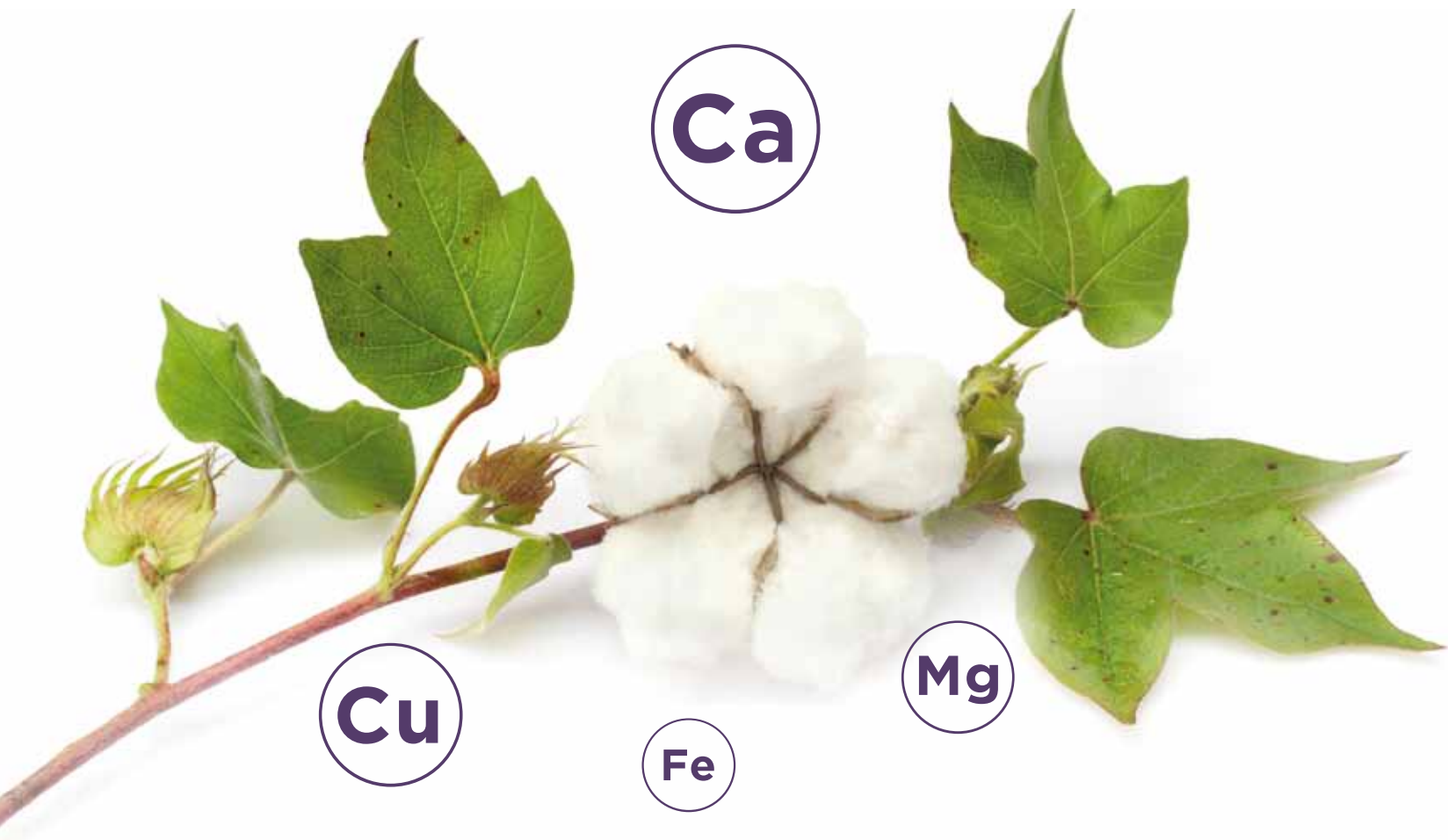


# SEQUESTERING AGENTS & PEROXIDE STABILIZERS

## FOR OPTIMAL PROCESS PERFORMANCE

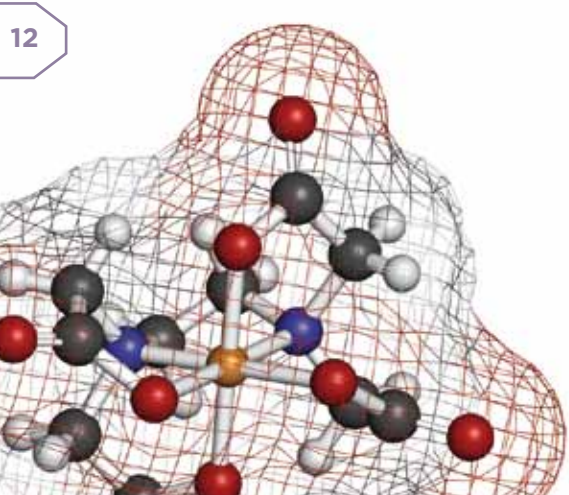
Since trace amounts of soluble iron, copper, manganese, calcium, and other metals occur naturally in many raw materials, the potential for scaling and undesirable metal-catalyzed reactions is widespread. These metal ions are normally found in processing water, and can also be introduced during processing.

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

SEQUESTERING AGENTS				APPLICATION PROCESS							
		SOLID CONTENT	ECOTOXICITY	DYEING	SCOURING	DEMINERALIZATION	DESIZING	BLEACHING	MERCERIZATION	SOAPING	
AMPLEX BC POLVO	EDTA-based sequestering agent. High chelating power for iron.	85	3	-	X	-	-	X	-	-	
AMPLEX SET	Phosphonate sequestering & dispersing agent for bleaching processes. High chelating power for iron.	16	1	-	X	-	X	X	-	X	
AMPLEX D-230	Phosphonate/acrylate sequestering & dispersing agent for dyeing cellulosics. With ability to chelate iron.	25	1	X	-	-	X	X	-	X	
AMPLEX CA-ECO	Sequestering & dispersing agent for general application, phosphorus-free, readily biodegradable.	20	0	X	-	-	-	-	-	X	
AMPLEX MS	Phosphonate sequestering agent for dyeing. With ability to chelate iron.	39	1	X	X	-	X	X	-	X	
AMPLEX D6/NA	Phosphonate sequestering & dispersing agent for the preparation and bleaching of goods. With ability to chelate iron.	28	1	-	X	-	-	X	-	X	
AMPLEX XEL	Sequestering agent for the demineralization of cellulosic fibers. Excellent chelating power for iron.	40	1	-	X	X	-	-	-	-	
AMPLEX BC-ECO	General application sequestering agent, phosphorus-free, readily biodegradable. High chelating power for iron.	34	0	X	X	-	X	X	-	X	
AMPLEX RG A.C.	Phosphonate sequestering & dispersing agent for general application. No demetallizing effect. With ability to chelate iron.	40	1	X	X	-	X	X	X	X	
AMPLEX 106 A.C. NUEVO	Sequestering & dispersing agent based on acrylic copolymer.	40	1	X	-	-	-	-	-	X	
				0: Very low · 1: Low · 2: Medium 3: High							

## PEROXIDE STABILIZERS

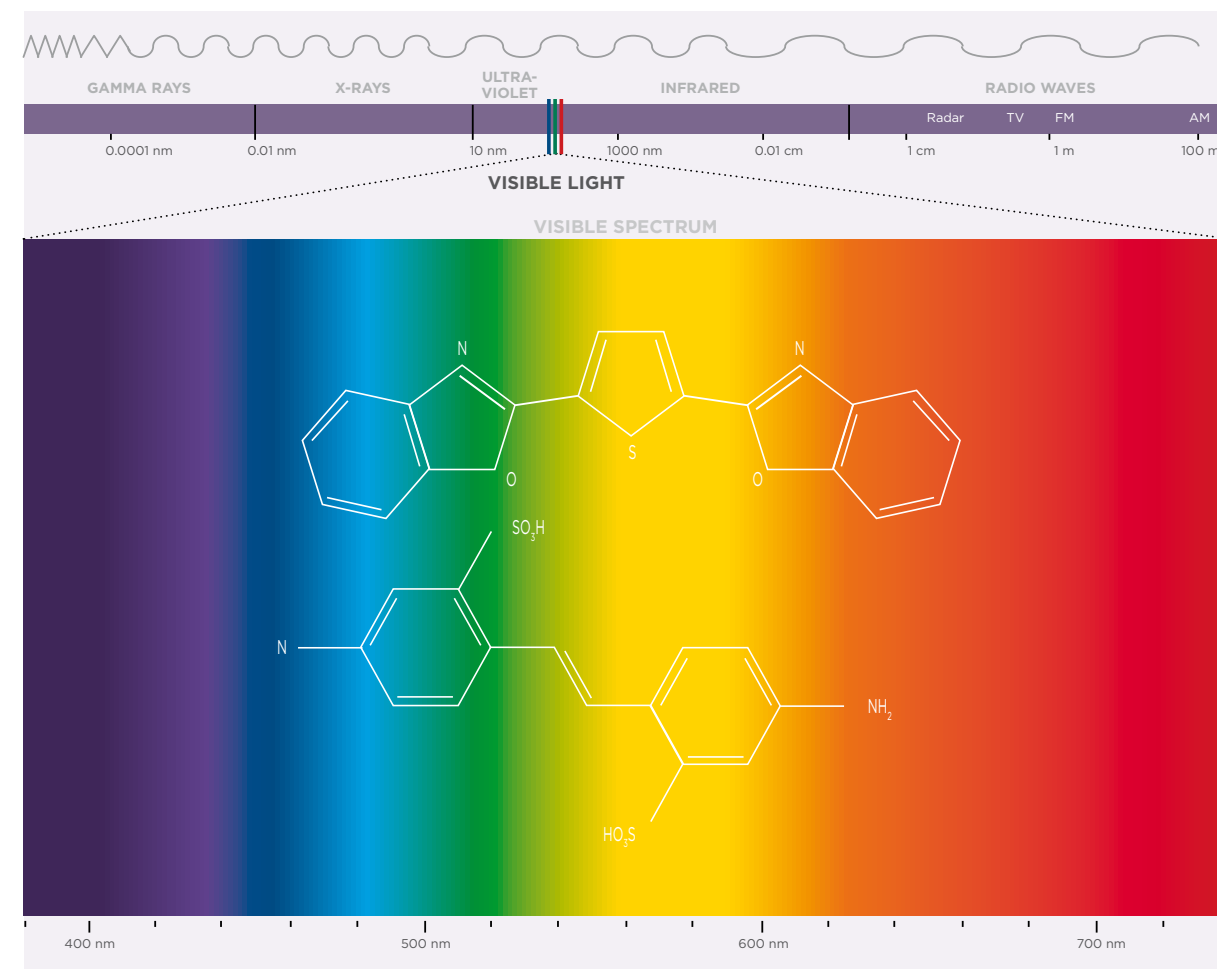
		CONTINUOUS	DISCONTINUOUS	SOLID CONTENT %
ESTABILIZADOR H2O2	Organic stabilizer and sequestering agent for iron in alkaline medium.	-	X	20
ESTABILIZADOR VP	Organic silicate-free stabilizer.	X	X	20
ESTABILIZADOR VP CONC	Organic stabilizer of general application, silicate-free, recommended for pad-steam.	X	X	40
COMPLEX RNB	Silicate-based stabilizer for pad-batch application.	X	X	40

# OPTICAL BRIGHTENERS

## TECHNOLOGY LEADER IN HIGH PERFORMANCE OPTICAL BRIGHTENING AGENTS



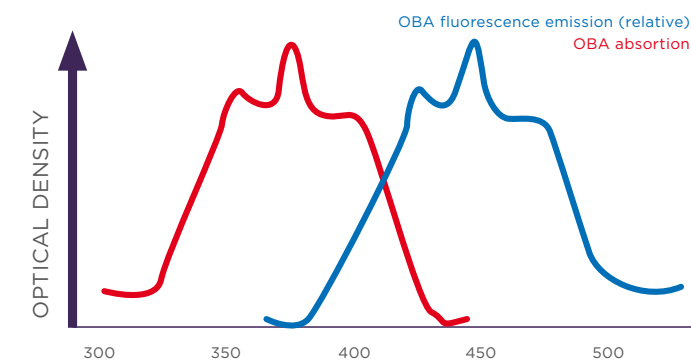
Optical Brightening Agents (OBAs) absorb in the UV range of the spectrum (350-360 nm) and re-emit it in the blue portion of the visible spectrum (400-500 nm). A white surface treated with an optical brightener can emit more visible light than that which shines on it, making a pleasing whiter-than-white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



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...

### 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

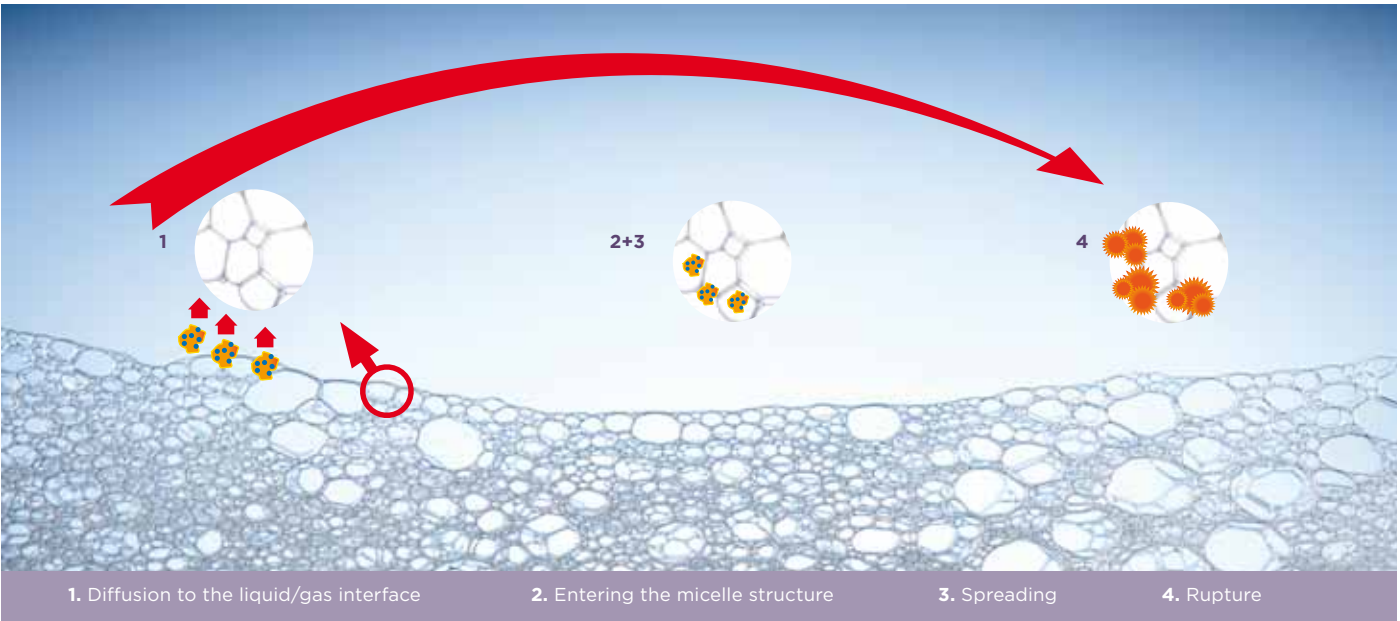
APPLICATION PROCESS

		FIBER	AFFINITY	SHADE	CONTIN.	DISCONTIN.
OPTICOL BR LÍQUIDO	Very good stability in acid baths together with resin until pH=4,5.	CELLULOSIC	MEDIUM	NEUTRAL	X	X
OPTICOL BU	Good stability in the bleaching baths with peroxide or reducing agents.	CELLULOSIC	LOW	NEUTRAL	X	-
OPTICOL NBS/B	Effects of very bright white blue-violet hue. Good stability in peroxide bleaching baths so the reproductibility is improved. Thanks to its high performance and sharpness it is their right OBA for processes "Simply White".	CELLULOSIC	HIGH	BLUE VIOLET	-	X
OPTICOL CM-2B	Provides high degrees of white, intense bluish shade. Good stability in peroxide bleaching baths. Suitable for automatic dispersing equipment.	CELLULOSIC	HIGH	BLUE	X	X
OPTICOL CM-B	Provides high degrees of white, intense bluish shade. Good stability in peroxide bleaching baths. Suitable for automatic dispersing equipment.	CELLULOSIC	HIGH	BLUE	-	X
OPTICOL PB LÍQUIDO	Optical brightener for cellulosic fibers, polyamide, wool and silk. High affinity particularly suitable for the exhaust process. Good stability in bleaching baths with peroxide or hydrosulfite.	CELLULOSIC	HIGH	NEUTRAL	-	X
OPTICOL PB LÍQ. B NUEVO	Tinged optical brightener for polyamide fibers. Application by exhaustion, stable in reducing baths.	POLYAMIDE	HIGH	BLUE	-	X
OPTICOL LC/B	Outstanding light fastness: very suitable for swimwear fabrics. Excellent stability to chlorite. Stable over a wide pH range. Excellent stability against reducing and oxidizing agents.	POLYAMIDE	HIGH	BLUE	X	X
OPTICOL PA-D	Tinged optical brightener for polyamide and acetate fibers. Applicable by exhaustion and continuous processes.	POLYAMIDE	HIGH	BLUE	X	X
OPTICOL SLC 90%	Tinged optical brightener (violet) for polyamide, wool, silk, cellulosic fibers and mixtures thereof. Applicable by exhaustion and continuous. Good lightfastness.	POLYAMIDE WOOL SILK CELLULOSIC	HIGH	VIOLET	X	X
OPTICOL PAT-S	Tinged optical brightener for polyamide, wool, silk, cellulosic fibers. Applicable by exhaustion and continuous processes.	POLYAMIDE WOOL SILK CELLULOSIC	HIGH	NEUTRAL	X	X
OPTICOL CPB-M	Tinged optical brightener for polyester fibers. Applicable by exhaustion and continuous processes.	POLYESTER	HIGH	BLUE	X	X
OPTICOL PES-MB	Optical brightener that provides high fastnesses. Highly recommended for application in peroxide bleaching bath when mixtures of PES/CO are handled.	POLYESTER	HIGH	BLUE	X	X
OPTICOL UPR	Optical brightener for polyester fibers and its mixtures. Applicable by exhaustion and continuous processes.	POLYESTER	HIGH	NEUTRAL	X	X
OPTICOL TJ-TM	Optical brightener for exhaustion and continuous processes. Confers very bright whites with blue-violet shade.	POLYESTER	HIGH	BLUE VIOLET	X	X
OPTICOL PVC	Bisbenzooxazol derivative for incorporation into plastic materials (especially polymers and synthetic resins thermoplastics). High thermal stability (suitable for fiber extrusion processes). High lightfastness.	POLYPROPYLENE POLYSTYRENE VINYL-RESINS COATINGS VARNISHES	N.A.	NEUTRAL	N.A.	N.A.

ANTIFOAMING AGENTS  
GET YOUR FOAM UNDER CONTROL

**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:



**Color Center's** antifoaming/defoaming product range has an attractive cost/performance ratio together with a high performance:

- High compatibility
- No negative side effects
- Long term efficiency
- Good handling characteristics
- Enhanced sustainability

ANTIFOAMING AGENTS

		SHEAR STABILITY	ELECTROLITE STABILITY	ACTIVE MATTER %
COMPLEX 1646	Silicone antifoam of general application, highly effective.	MEDIUM	MEDIUM	16
ANTIESPUMANTE S159	Silicone antifoam of general application. With high alkali, electrolyte and shear stability.	HIGH	MEDIUM	15
ANTIESPUMANTE D-200	Silicone antifoam concentrate of general application.	MEDIUM	MEDIUM	30
COMPLEX EV	Antifoam based on vegetable esthers, highly biodegradable.	HIGH	MEDIUM	24
ANTIESPUMANTE SAE	Mineral oil and organic waxes based defoamer. High stability.	HIGH	HIGH	100

SPECIFIC  
AUXILIARIES

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

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.

FIXING AGENTS

ESTERFIX SEC	Formaldehyde free fixyng agent for cellulosic fibers.
ESTERFIX FRC-60	Fixing agent for cellulosic fibers with low Formaldehyde content.
ESTERFIX DMP	Crocking fastness enhancer.
ESTEROL RWA-D	Fixing agent for polyamide or wool fabrics.
ESTERROL RWS	Fixing agent for polyamide or wool fabrics. Stable to high acid liquors.

HYDROPHILIC AGENTS

ESTEROL LFP	Lubricant and Hydrophilizing agent for polyester and polyamide fibres.
ESTEROL PE	Antistatic and Hydrophilizing agent for polyester fibres.
PRODUCTO HP	Hydropholizing agent for synthetic fibres.

LUBRICANTS

AMPLEX AS	Lubricant agent 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 tthe 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 acrilyc fibers.
ANTIMIGRANTE IS 200	Antimigrating agent for continous dyeing.

DISPERSING AGENTS & CARRIERS

DISPERSANTE US/P	Levelling-dispersing agent for dispers 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 poliester fabrics.
ESTEROL BFA	Ecologic carrier for dyeing poliester 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).
ESTERROL AC-P	Alkali donor for reactive dyeing.
COMPLEX TA-5	Acid buffer for enzymatic blasting.

REDOX PRODUCTS

AMPLEX 1001	Biodegradable sulfur-free reducing agent.
RECDUCTOR R CONC	Modified organic reducing agent. Highly concentrated.
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.





## FINISHING

### INNOVATIVE SOLUTIONS FOR FASHION AND FUNCTIONAL FINISHES OF TEXTILES

**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...

CENTERGARD

RESINA  
CENTER

IGNIFUGANTE

ROMSOFT  
SILICONA CENTER

CENTERBAC



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.

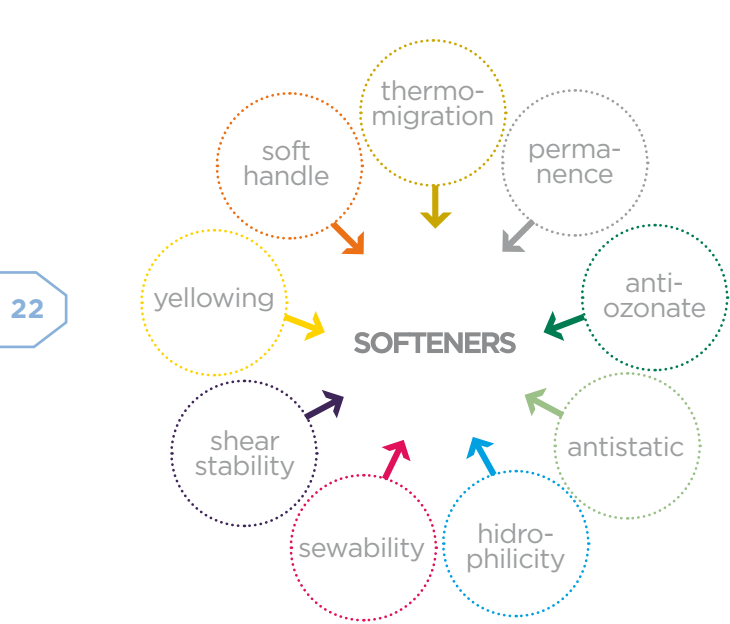
Eco-design and Sustainability is one of **Color Center's** main driven-forces for innovation.



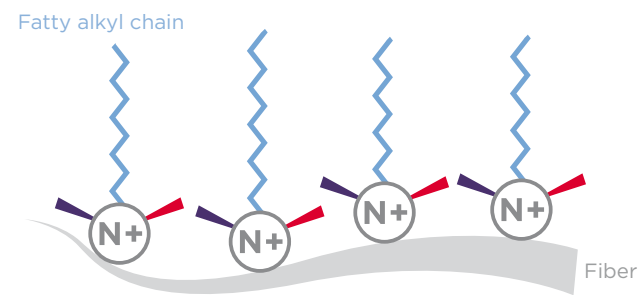
# SOFTENERS

## ORGANIC SOFTENER DISPERSIONS FOR THE SOFTENING OF TEXTILE GOODS

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



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



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.

# SOFTENERS

		Solid content (%)		pH 10(%)	Viscosity 25°C (cps)	Ready to use	Concentrated	Ionicity	Appearance	Hydrophobicity	Hydrophilicity	Handle	Low yellowing	high heat resistance	Durability	Lubrication (sewability)	Thermomigration improvement	Anti-Ozonate	APPLICATION		
																			Padding	Exhaustion	Coating
PRODUCTO R22	Oleic esterquat, easy handling at low temp., rapid dispersion in cold water. Good softening & antistatic & rewetting properties. Ready biodegradable. Highly substantive.	90	3 (5%)	<10000	-	X	cationic	amber viscous liquid	-	3+	soft and fresh	2	3	-	-	-	-	-	X	X	-
ROMSOFT AQ/85	Tallow esterquat, easy handling properties even at room temp. Good softening & antistatic properties. Ready biodegradable. Highly substantive.	85	2,5 (5%)	soft paste	-	X	cationic	soft paste	-	2+	soft and fresh	3	4	-	-	-	-	-	X	X	-
ROMSOFT AQ/90	Partially hydrogenated tallow esterquat. Good softening & antistatic properties. Ready biodegradable. Highly substantive.	90	2,5 (5%)	paste	-	X	cationic	white paste	-	2+	soft and fresh	3	4	-	-	-	-	-	X	X	-
SUAVIZANTE OE/2	Esterquat dispersion. Antistatic softener for all kind of fibres. Ready biodegradable. Also recommended for PES rising.	13	4,5	<100	X	-	cationic	white dispersion	-	2+	soft and fresh	3	4	-	-	-	-	-	X	X	-
SUAVIZANTE 1205-B NEW	Enhanced anti-yellowing & anti-ozonate (gas fadding) properties for denim. Good rewetting power.	15	4,5	<2000	X	-	cationic	white dispersion	-	3	soft and greasy	4	4	-	-	-	4	-	X	X	-
ROMSOFT TPE	Synergistic mixture. Sewing and napping improver for all fibres. Reduces metal fiber friction ratio. Boosts the re-winding processes of yam and confection of dresses.	18,5	5	<100	X	-	cationic	white dispersion	3	-	soft and fully	2	2	3	-	-	-	-	-	X	-
ROMSOFT MG	Antistatic softener for all kind of fibres. Ready biodegradable. Synergistic mixture of esterquat and silicone. Recommended for open-end yarns.	10	4,5	<100	X	-	cationic	white dispersion	-	2+	soft and smooth	3	4	-	-	-	-	-	X	X	-
SUAVIZANTE VL-N	Preparation of wax and polysiloxane compound. Softening agent for textiles of all fibre types, especially for PES fibres. In case of disperse dyeings favourable behaviour with regard to thermomigration.	15	4	<100	X	-	non ionic	white emulsion	3	-	soft and smooth	3	2	3	4	-	-	-	X	-	-
SUAVIZANTE FF NUEVO	Softener for acrylic fiber, greasy handle. Facilitates the napping and emerizing operations improvig flexibility and smoothness.	13,5	4	<100	X	-	cationic	white dispersion	3	-	Soft and greasy	2	2	-	-	-	-	-	X	X	-
ROMSOFT CST	Dispersion of a fatty acid derivative. Low yellowing. Gives a very pleasant feel and good anti-static effect on natural & synthetic fibres and their mixtures.	21	4	<1000	X	-	slightly cationic	white dispersion	3	-	soft and full	4	2	3	-	-	-	-	X	X	-
ROMSOFT ANF	Dispersion of fatty acid derivative. Softener for all kind of fibres, specially suitable for white fabrics. Good compatibility with optical brightening agents, antistatic.	16	4,5 (100%)	<100	X	-	non ionic	flakes	3	-	soft and full	4	2	3	4	-	-	-	X	X	-
ROMSOFT PES	Synergic mixture of fatty acid amides and elastomeric silicone. Recommended for PES fabrics.	21	5	-	X	-	cationic	white dispersion	3	-	warm, elastomeric	2	3	3	3	-	-	-	X	X	-
UNIMIN P	Paraffin macro emulsion. Reduces notably the friction coefficients fiber - fiber and fiber - metal. Antistatic properties.	37	7	<100	X	-	cationic	white dispersion	3	-	fresh & smooth	3		4	3	-	-	-	X	X	-
ROMSOFT PB	Paraffin cationic macro-emulsion. Reduces notably the friction coefficients fiber - fiber and fiber - metal. Low yellowing and thermomigration.	50	4	<1000	X	X	cationic	macro emulsion	3	-	fresh & pleasant	3	3	3	4	-	-	-	X	X	-
ROMSOFT CLK	Polyethylene wax macro-emulsion, cationic. Reduces notably the friction coefficients fiber - fiber and fiber - metal. Increases resistance to the abrasion and tear strenght. Reduces tendency to creasing.	25	5	<100	X	-	cationic	macro emulsion	3	-	smooth & supple	3	3	4	3	-	-	-	X	X	-
EMULSION DE POLIETILENO PE/C	Polyethylene wax macro-emulsion. Reduces notably the friction coefficients fiber - fiber and fiber - metal. Increases resistance to the abrasion and tear strenght.	37	8	<100	X	X	non ionic	macro emulsion	3	-	smooth & supple	3	2	4	3	-	-	-	X	X	-
ROMSOFT PME/200	High melting point polyethylene wax micro-emulsion. Reduces notably the friction coefficients fiber - fiber and fiber - metal. Increases resistance to the abrasion and tear strenght.	36	10 (100%)	<100	X	X	non ionic	micro emulsion	3	-	smooth & supple	3	2	4	3	-	-	-	X	X	-
ROMSOFT SF	Mixture of fatty acid esters. Softener for sanfor.	30	5	<100	X	-	non ionic	yellowish liquid	-	3	smooth	2	2	-	-	-	-	-	-	X	-
ROMSOFT FLK PASTA	Mixture of fatty alcohols derivatives and fatty esters, antistatic and cracant softener for flock.	38	5,5	paste	X	X	non ionic	white paste	-	2	cracant touch	3	2	3	-	-	-	-	-	X	-
ROMSOFT KN	Mixture of fatty alcohols derivatives, antistatic and cracant softener. Pharma approved (sterile gauze). Do not modifies hidrophilicity.	45	8	paste	X	X	non ionic	white paste	-	2	cracant touch	3	2	3	-	-	-	-	-	X	-

-: No data · 1: Low · 2: Medium · 3: Good · 4: Excellent

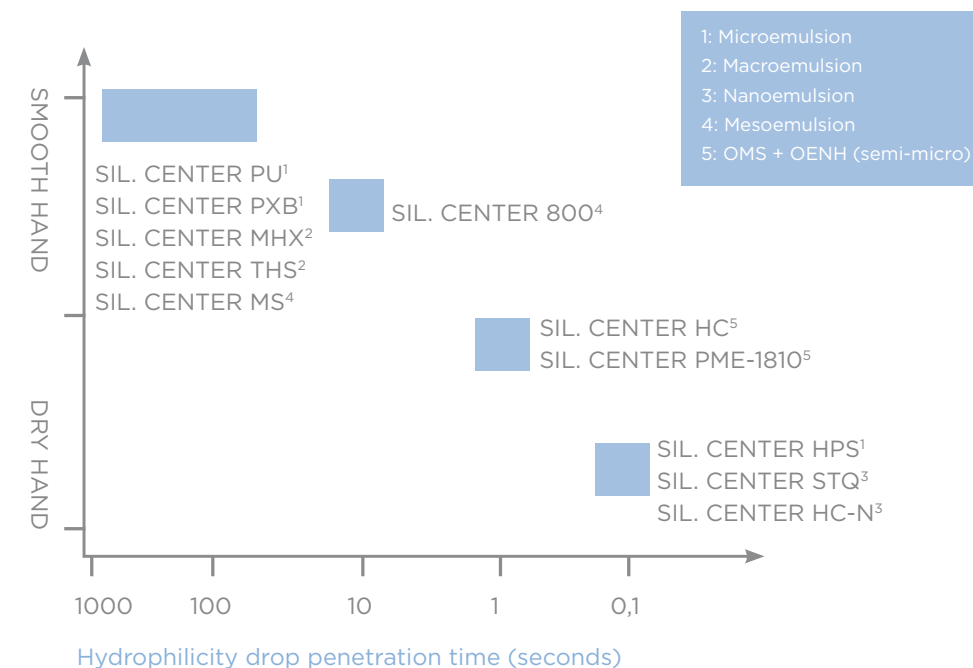


# SILICONES

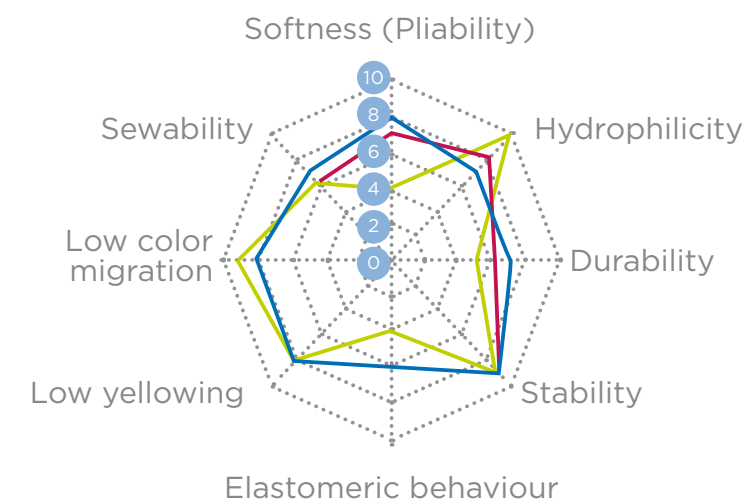
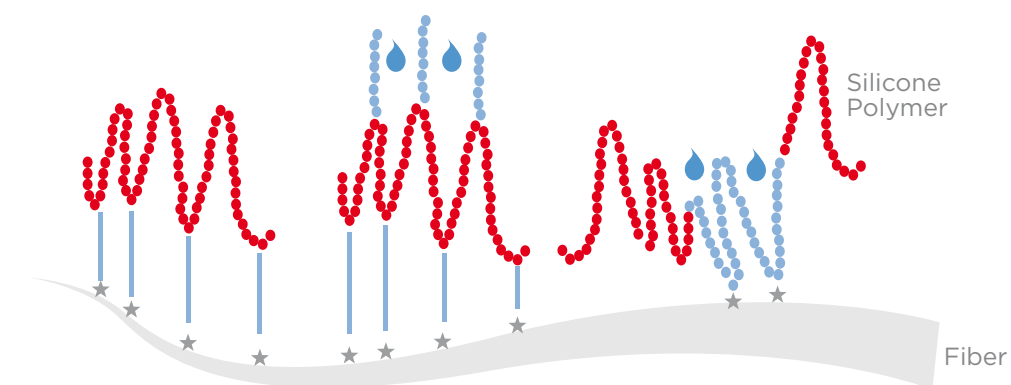
TEXTILE ENHANCERS: CUTTING-EDGE  
TECHNOLOGY IN SILICONE POLYMERS  
AND EMULSIONS



## COMPARISON OF PRODUCT PROPERTIES ON COTTON FABRIC



## DESIGNING THE RIGHT POLYMER MICROSTRUCTURE TO GET THE BEST PERFORMANCE



SILICONES



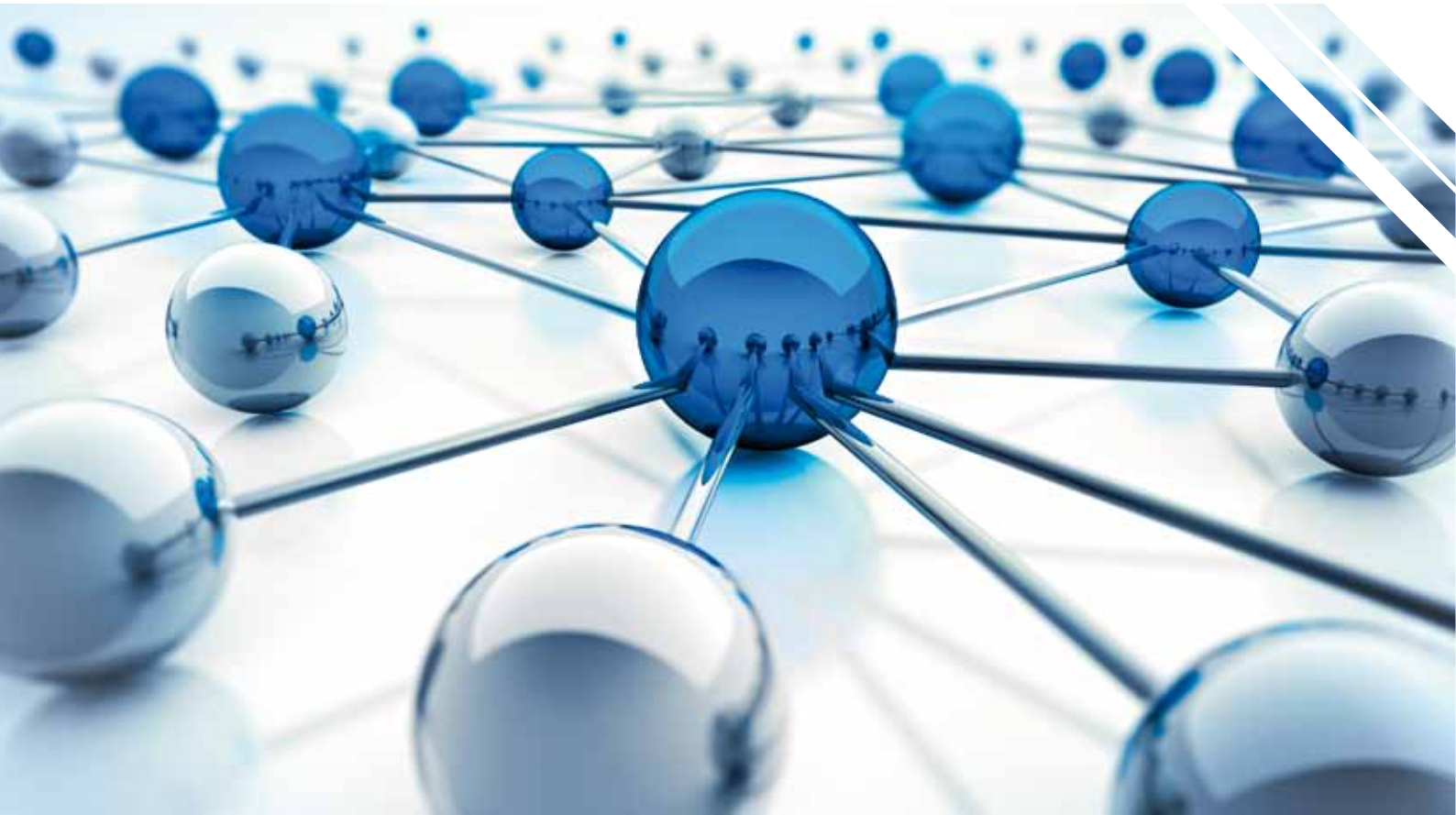
		SOLID CONTENT (%)	IONICITY	PARTICLE SIZE	HANDLE	LOW YELLOWING HIGH HEAT RESISTANCE	ELASTOMERICITY	DURABILITY	LUBRICATION (SEWABILITY)	pH STABILITY	SHEAR STABILITY	APPLICATION		
												PADDING	EXHAUSTION	COATING
SILICONA CENTER DEP	Silicone macro emulsion, color deepening agent.	40	non ionic	macro	-	-	-	3	-	2	2	X	-	-
SILICONA CENTER THS NUEVA	Silicone macro emulsion, for general application on all kind of fibers.	30	non ionic	macro	4	2-3	3	4	3	2	2	X	-	X
SILICONA CENTER MHX CONC	Silicone macro emulsion, for general application on all kind of fibers.	63	non ionic	macro	4	2-3	3	4	3	2	2	X	-	X
SILICONA CENTER 800	Silicone semi-macro emulsion. Mois ture management properties.	14	non ionic	meso	2-3	2-3	3	4	3	2	2	X	-	-
SILICONA CENTER ZM ULTRA CONC	Silicone macro emulsion. Improves sewability, wash-and-wearrr properties, easy iron and crease recovery.	60	non ionic	macro	3	3	4	4	3	2	2	X	-	X
SILICONA CENTER UM	Silicone macro emulsion, high performance on PES/Cotton fabrics.	40	non ionic	macro	4	2-3	4	4	3	2	2	X	-	X
SILICONA CENTER MS CONC	Premium silky-handle, silicone elastomeric mesoemulsion. Impart a very soft, drapable and elastic hand to a wide range of fiber materials such as cotton (CO), polyester (PES), viscose (CV) and their mixtures.	58	non ionic	meso	4+	3	4+	4+	3	2	2	X	-	X
COMPLEX RTN NUEVO	Hybrid acrylic/polyurethane emulsion. Good crease recovery and pliability.	33	non ionic	micro	3	2	4	3	3	2	2	X	-	-
COMPLEX RTN-FF	Hybrid acrylic/polyurethane emulsion. Good crease recovery and pliability.	30	non ionic	micro	3	2	4	3	3	2	2	X	-	-
SILICONA CENTER PXB	Elastomeric silicone microemulsion. Very soft handle, good wash fastness.	21	non ionic	micro	2-3	2	2	3	2-3	3	3	X	-	X
SILICONA CENTER PU ULTRA CONC	Elastomeric silicone microemulsion. Very soft handle, good wash fastness.	49	non ionic	micro	4	3	3	4	3	3	3	X	-	X
SILICONA CENTER HC EXT. CONC.	Hydrophilic silicone semi-microemulsion. Good crease recovery and easy ironing. Slippery and drapable hand.	82	cationic	semi-micro	3-4	2-3	2	3	2	4	4	X	X	-
SILICONA CENTER STQ-40	Hydrophilic silicone nanoemulsion. Hydrophilic silicone microemulsion. Good crease recovery and easy ironing. Slippery and drapable hand.	22	non ionic	nano	2-3	3	2	2	2	4	4	X	X	-
SILICONA CENTER PME-1810	Modified hydrophilic silicone semi-microemul- sion. Decreases metal-fiber and fiber friction coefficient. Increases fibre resistance.	20	non ionic	semi-micro	3-4	2-3	3	2	4	2	2	X	-	-
SILICONA CENTER HC-N EXTRA CONC.	Hydrophilic silicone nanoemulsion. Improves touch, greatly increases hydrophilicity, confers a smooth and soft touch.	80	non ionic	nano	3-4	3	2	2	2	4	4	X	X	-
SILICONA CENTER HPS 6	Hydrophilic ultra-low yellowing silicone micro- emulsion. Recommended for white fabrics.	65	non ionic	micro	3	4+	3	3	3	3	3	X	-	X
SILICONA CENTER SAN	Elastomeric silicone microemulsion. Very soft handle, excellent shear stability, good wash fast- ness. Specially designed for garment finishing	30	cationic	micro	-	4	2	3	4	3	3	X	-	-



# RESINS & CROSS-LINKING AGENTS

## SUSTAINABLE POLYMERS THAT ENHANCE PERFORMANCE

POLYURETHANES-MELAMINES AND GLYOXALS-ACRYLIC EMULSIONS-CROSSLINKERS



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

### POLYURETHANES

COMPOSITION			SOLID CONTENT (%)	IONIC CHARACTER	NMP/NEP-FREE	VISCOSITY 25° C (mPas)	MODULUS 100 (mPa)	TEXTILE STRENGTH (mPa)	ELONGATION (%)
RESINA CENTER ODG	Film of high hardness with high abrasion resistance and excellent adhesion characteristics to various substrates. Formaldehyde-free alternative to melamine.	Aliphatic-polyester	40	A	-	< 500	20	25	250
RESINA CENTER C16 CONC	Semi-rigid, transparent film. Foamable.	Aliphatic-polyester	35	A	-	50-100	12	22	175
RESINA CENTER PUR-C	Soft, transparent, elastic film without residual tack. Foamable.	Aliphatic-polyester	40	A	-	500-1500	1.6	12	800
RESINA CENTER APU	Soft, elastic and transparent film. Recommended as a binder for coatings and printing.	Aliphatic-polyester	50	A	-	< 500	2	30	850
RESINA CENTER BL	Very soft and elastic film. Recommended for “plasticizing” finishing compositions requiring high elasticity.	Aliphatic-Polyester /polyether	30	A	yes	75	0.7	3.0	1000
RESINA CENTER MD	Polyurethane dispersion with a very fine particle size. It produces very soft thermoplastic films with a slightly residual tack.	Aliphatic-polyether	26	A	yes	30-70	1.7	25	800
RESINA CENTER NIC	Nonionic, compatible with cationic and anionic products. It provides antipilling effect and improves abrasion fastness.	Aliphatic-polyether	30	N	yes	50-100	0.3	1.5	1000
RESINA CENTER PKA	Amphoteric, compatible with cationic and anionic products. It provides antipilling effect and improves abrasion fastness. Suitable for formaldehyde-free finishes as well as a binder for nonwoven fabrics and felts. Recommended as a anti-felting of wool. Foamable.	Aliphatic-polyether	30	Am-pho-teric /A	yes	< 50	-	-	-
PRODUCTO ELS-30	Non film-forming polyurethane emulsion. In combination with silicone microemulsions provides a fallen handle.	Aliphatic-polyether	20	N	-	< 700	-	-	-
RESINA CENTER PKN	Polyurethane nano-emulsion for applications in high-quality finishes. Penetrates the fiber and also gives surface coating. Recommended for hydrophilic special finishes, improves antipilling properties. Improves the feel of traditional resins.	Aliphatic-polyether	30	Am-pho-teric /A	yes	< 50	-	-	-
RESINA CENTER JMU	Elastic polyurethane emulsion without residual tack. It provides a full and soft touch.	Aliphatic-polyether	30	N	-	< 200	-	8	600

## MELAMINES & GLYOXALS

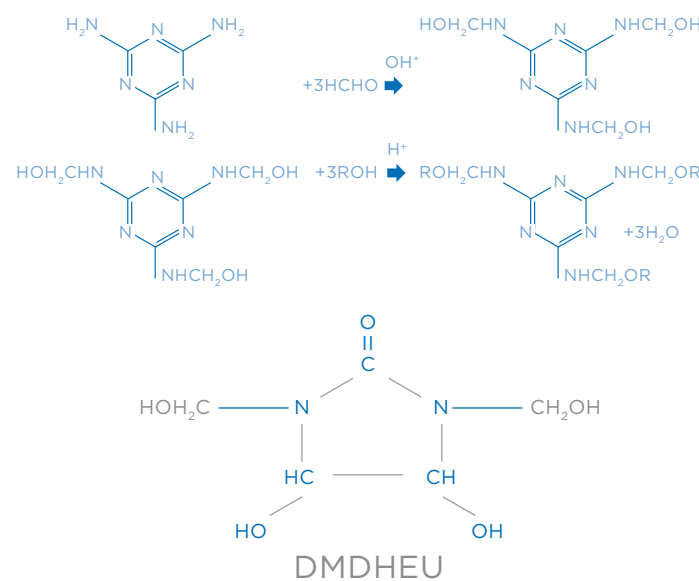
COMPOSITION			SOLID CONTENT	IONIC CHARACTER	PH (10%)	FORMALDEHYDE CONTENT (%)
RESINA CENTER CDL CONC.	Crosslinking agent with low formaldehyde content for easy-care finish of cellulosic fibers and their blends with synthetics. Application by foulard.	Modified N-hydroxymethyl-dihydroxy-ethyleneurea	58	non ionic	4.5-5.5	< 0.6
RESINA CENTER GNC	Crosslinking agent with low formaldehyde content for easy-care finish of cellulosic fibers and their blends with synthetics. Application by foulard.	N,N'-dimethyl glyoxal monoureine urea derivative, integrated catalyst	60	non ionic	2-3	< 0.2
RESINA CENTER EC-LF	Crosslinking agent with ultra-low formaldehyde content for easy-care finish of cellulosic fibers and their blends with synthetics. Application by foulard. Fullfils ECO-TEX standard 100 for textiles in direct contact with the skin, <75 ppm according to Japan Law 112-1973.	Dihydroxyethylene urea	40	non ionic	4-5	< 0.1
RESINA CENTER EC-FF	Crosslinking agent with ultra-low formaldehyde content for easy-care finish of cellulosic fibers and their blends with synthetics. Application by foulard. Suitable for children's clothes, fullfils ECO-TEX standard 100 for textiles in direct contact with the skin, Japan Law 112-1973. Finish law SFS 4996/1986.	Dimethylol-hydroxyethylene-urea	40	non ionic	5-6	Formol free
RESINA CENTER MC	Permanent finishing fixer. Calendering, goffering, pigment printing. Improves washfastness and abrasion. Combined use with water-repellant finishes, hydrostatic column. Semi-rigid finishes. Foulard application on all types of fibers.	Melamine-formaldehyde resin	60	non ionic	9-10	< 1.2
RESINA CENTER MC-LF	Low formaldehyde permanent finishing fixer. Calendering, goffering, pigment printing. Improves washfastness and abrasion. Combined use with water-repellant finishes, hydrostatic column. Semi-rigid finishes. Foulard application on all types of fibers.	Melamine-formaldehyde resin	60	non ionic	9-10	< 0.4
RESINA CENTER KT	Permanent finishing fixer. Calendering, goffering, pigment printing. Improves washfastness and abrasion. Combined use with water-repellant finishes, hydrostatic column. Rigid finishes. Foulard application on all types of fibers.	Melamine-formaldehyde resin	70	non ionic	8-9	< 1
PRODUCTO V 100-B	Waterborne resin for rigid finishes. Binder for carpet backing. Aplicable by the padding, sloop padding, doctor blade and foam application methods.	Polyvinyl acetate dispersion	50	non ionic	3-5	Formol free
PRODUCTO P-110	Printing adhesive. Recommended for finishing polyester and polyamide ribbons to give sizing and sustained touch. Film-forming, biodegradable.	Polyvinyl alcohol dispersion	10	non ionic	7-7,5	Formol free

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



## ACRYLIC, VINYL & LATEX

		COMP.	SOLID CONTENT (%)	APEO-FREE	T <sub>g</sub> (°C)	MTFF (°C)	IONIC CHARACTER	VISCOSITY mPa.s 25°C	SELF-CROSSLINKING	pH 10%
RESINA CENTER AC-60	Waterborne acrylic resin. Gives soft, clear coatings, without residual tack. Recommended for flocking and coating. Low yellowing.	Acrylic	60	yes	0	0	A	<1500	yes	6,5-7,5
RESINA CENTER AD	Waterborne acrylic resin. Imparts a supple, hard and elastic handle, with good fastness to dry-cleaning and good wash-fastness. Outstanding mechanical stability, recommended as a binder for non-woven.	Acrylic	45	yes	48	32	A	<200	yes	4,5-7,5
RESINA CENTER AGR/2	Especially suitable for manufacturing paper and packaging adhesives with high setting speed. Adhesives used for lamination of furniture foils (PVC and impregnated paper) can be formulated as well. It is also applied in agriculture, public works, geotextil.	Vinyl copolymer	60	yes	5	0	A	<4000	no	4,5-5,5
RESINA CENTER D	Additive for "soil release" finishing of cellulosic or synthetic fibres by foulard. Gives hard coatings, recommended for selvage sizing.	Acrylic copolymer	50	yes	38	-	A	<200	yes	3,0-4,0
RESINA CENTER NUEVA	Waterborne acrylic-styrene copolymer. Gives flexible, glossy and clear coatings. Residual tack.	Acrylic styrene	50	yes	-15	0	A	<1000	no	7,0-8,0
RESINA CENTER CRT-9	Waterborne acrylic polymer. Gives clear, elastic and glossy coatings with a medium softness. Recommended for awnings and lacquers as well as pigment printing.	Acrylic	50	yes	-26	0	A	<1000	yes	5,0-6,0
RESINA CENTER CRT NUEVA	Waterborne acrylic polymer. Gives clear, elastic and glossy coatings with a medium softness. Recommended for awnings and lacquers as well as pigment printing. Formaldehyde-free.	Acrylic	50	yes	-26	0	A	<1000	yes	5,0-6,0
RESINA CENTER BC	Waterborne butadiene-styrene copolymer. Gives soft and elastic coatings. For pigment printing. Good bonding capacity.	Butadiene styrene	38	yes	-30	-	A	<300	yes	8,5-9,5
RESINA CENTER CA	Waterborne cationic acrylic copolymer. Gives clear and glossy coatings, residual tack. Good adhesion, recommended for sizing, flocking and coating. It can also be applied by exhaustion for cationizing and sizing. Not compatible with anionic products and thi.	Acrylic	46	yes	0	0	C	<150	yes	3,5-4,5
RESINA CENTER STK/100	Waterborne binder for pigment printing, good dry-clean fastness, soft and comfortable handle.	Acrylic	35	yes	5	0	A	<300	yes	6,5-7,5
RESINA CENTER ES	Waterborne binder for pigment printing, recommended for the formulation of lacquers. Recommended for printing lycra fabrics due to its outstanding elasticity.	Acrylic styrene	35	yes	-	0	A	<300	yes	5,5-7,5
RESINA CENTER STK/NF	Waterborne binder for pigment printing. Imparts dry-clean fastness, soft and comfortable handle. Elastic and transparent film. Formaldehyde-free.	Acrylic styrene	48	yes	-22	0	A	<500	yes	7,0-8,0
RESINA CENTER 441	Waterborne synthetic latex. Suitable for bonding non-wovens produced from natural and/or synthetic fibres. Great flexibility and good resistance to plasticizers, particularly recommend for synthetic leather coatings. Free from plasticizers.	Butadiene styrene	45	yes	-30	-	A	<500	no	7,0-8,0

## CROSSLINKING AGENTS

		COMP.	SOLID CONTENT (%)	IONIC CHARACTER	VISCOSITY 25°C (cPs)	pH t.c.	RECOMMENDED APPLICATION TEMP. (°C)
PRODUCTO	Substantially improves the mechanical properties of coatings based on polyurethane resins, formaldehyde-free.	Aliphatic blocked isocyanate	45	N	< 150	7.0-9.0	150
PRODUCTO	Crosslink agent that improves the efficiency of polyurethane and fluorocarbon coatings. Improves durability and strength. Free of PFC, PFOA, PFOS, APEO and tin derivatives.	Aliphatic blocked isocyanate	40	N	< 150	5.0-5.5	80-120
PRODUCTO	Improves film formation and durability of fluorocarbons, increases the water column, is compatible with N-methylol compounds.	Aliphatic blocked isocyanate	25	C	< 150	4.0-5.0	150
PRODUCTO	Crosslink agent that improves the efficiency of the coatings based on polyurethane and acrylic resins. It provides durability, adhesion and resistance.	Aliphatic blocked isocyanate	30	A	< 150	7.0-9.0	95-110
CATALIZADOR	Inorganic catalyst employed in the textile industry as a curing agent in the finishing of high-quality cotton and their blends with synthetic fibers using urea formaldehyde resins, melamine formaldehyde resins and reactants in general.	Inorganic salt	100	-	powder	4.5-5.0 (10%)	N.A.
CATALIZADOR	Inorganic catalyst employed in the textile industry as a curing agent in the finishing of high-quality cotton and their blends with synthetic fibers using urea formaldehyde resins, melamine formaldehyde resins and reactants in general.	Inorganic salt	60	-	< 150	2.5-3.5	N.A.
PE 507/CAT	Inorganic catalyst employed in the textile industry as a curing agent in the finishing of high-quality cotton and their blends with synthetic fibers using urea formaldehyde resins, melamine formaldehyde resins and reactants in general.	Inorganic salt	40	-	< 150	2.5-4.0	N.A.



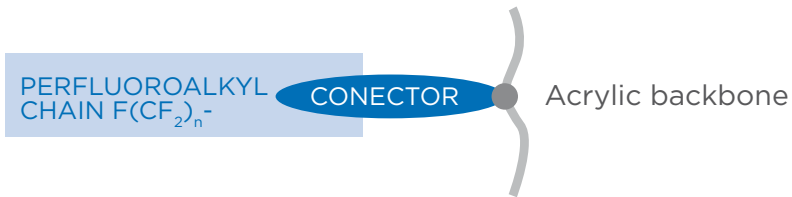
# WATER AND OIL REPELLENTS

## 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

WATER REPELLENTS FLUORINE FREE		FIBER TYPE				APPLIC. METHOD	
		IONIC CHARACTER	WASH FASTNESS	COTTON	SYNTHETIC	FOULARD	EXHAUSTION
UNIPERL Z	Water repellent for all type of fibres, zirconium salt paraffin based.	C	-	X	X	X	X
UNIPERL AL	Water repellent for all type of fibres, aluminium salt paraffin based.	C	-	X	X	X	X
UNIPERL CFF	Permanent water repellent for all type of fibres. Based on fatty derivatives. Extender for fluorocarbons.	C	X	X	X	X	-
PRODUCTO FMP	Permanent water repellent for all type of fibres. Based on synergistic mixture of fatty acid derivatives and paraffins.	C	X	X	X	X	-
CENTERGARD D-ECO	Permanent water repellent based on 3D polymer technology.	C	X	X	X	X	-
CENTERFOB HN	Permanent water repellent based on reactive polydimethylsiloxane.	N	X	X	X	X	-
CENTERFOB HC	Permanent water repellent based on reactive polydimethylsiloxane.	C	X	X	X	X	-

## FLUOROCARBONS

FLUOROCARBONS

		FIBER TYPE					APPLICATION FIELD		
		IONIC CHARACTER	LOW TEMP. CURING	COTTON	SYNTHETIC	AWNING	TABLE LINEN	DRESS, CLOTHES & WORKWEAR	UPHOLSTERY
CENTERGARD BWR CONC	Fluorcarbon C8, general application. High concentration.	C	-	X	X	-	X	X	X
CENTERGARD 50/BWR	Fluorcarbon C8, recommended for awning and synthetic fibers.	C	-	-	X	X	-	-	-
CENTERGARD 50/BWR-6	Fluorcarbon C6, recommended for awning and synthetic fibers.	C	-	-	X	X	-	-	-
CENTERGARD FR/1	Fluorcarbon C8, special use for awning. Maximum hydrophobicity.	C	-	X	X	X	-	-	-
CENTERGARD 24 BR	Fluorcarbon C8, special use for awning and synthetic fibers. High concentration.	C	-	-	X	X	-	-	-
CENTERGARD ATR	Fluorcarbon C8 for cotton and blends.	C	-	X	-	-	X	X	X
CENTERGARD 4228	Fluorcarbon C6, general application. Low temperature condensation.	C	X	X	X	X	X	X	X
CENTERGARD RSX	Fluorcarbon C6, does not affect flame retardant properties (recommended for Trevira CS).	C	-	-	X	-	-	-	X
AMPLEX NI	Fluorcarbon C8, nonionic, for general application.	N	-	X	X	-	X	X	X
CENTERGARD D6i	Fluorcarbon C8, recommended for Stain Release finishing.	C	-	X	X	-	X	X	X
CENTERGARD CT	Fluorcarbon C6 and 3D polymers, general application.	C	X	X	X	X	X	X	X

# FLAME RETARDANT AGENTS

## FLAME RETARDANT TECHNOLOGY FOR TECHNICAL TEXTILES



### WHY FLAME RETARDANTS?

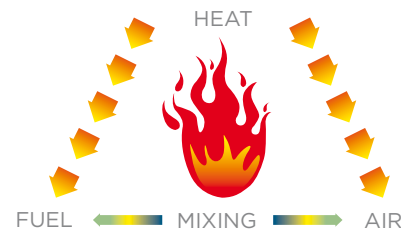
Flame retardants are chemicals which are added to combustible materials to render them more resistant to ignition.

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.

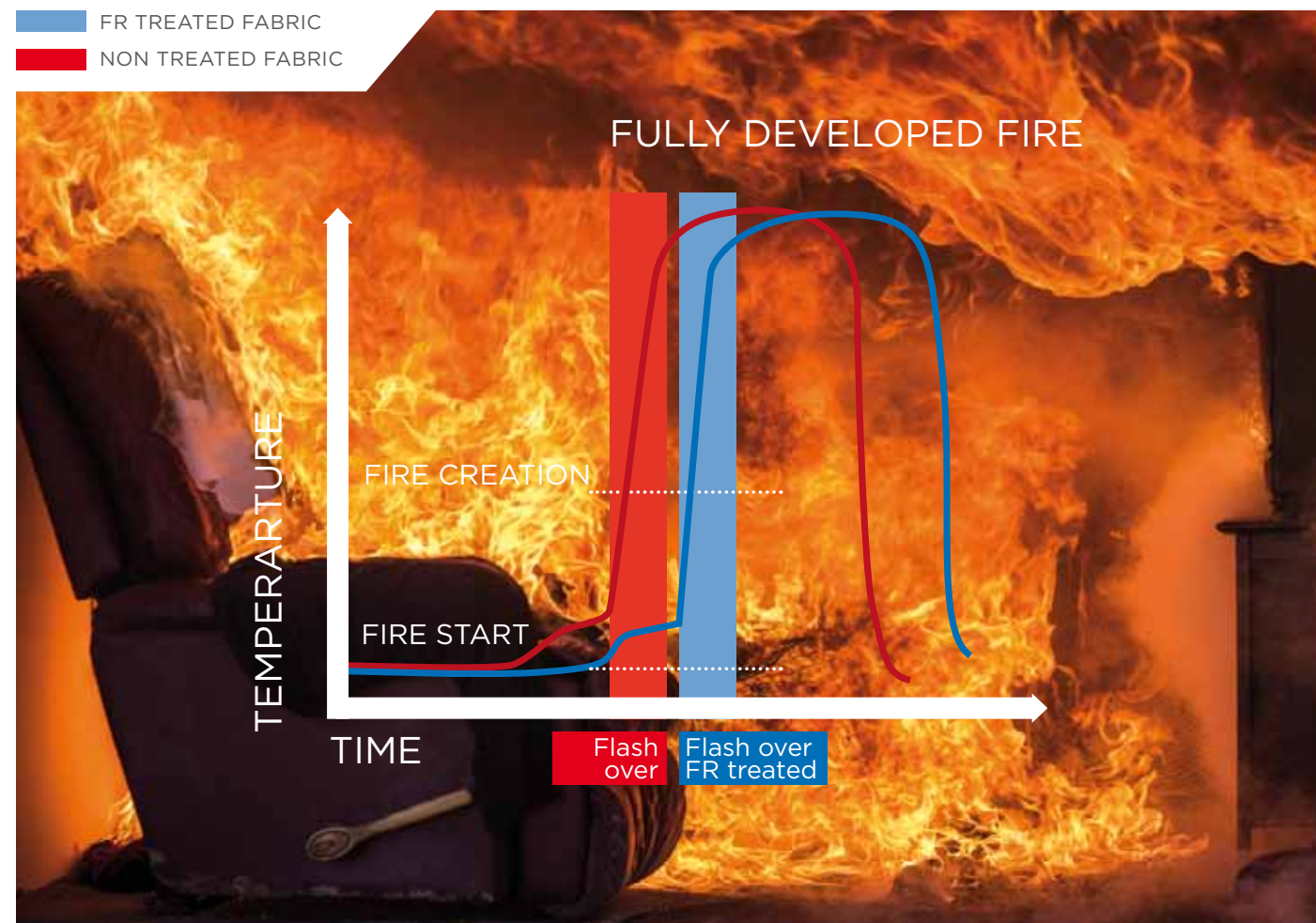
### HOW DO FLAME RETARDANTS IMPROVE TEXTILE FIRE SAFETY?

- Prevent textiles from catching fire
- Reduce the rate of burning and prevent fire spread (flash-over)

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 interfere on one of those factors to break the cycle.



FR TREATED FABRIC  
NON TREATED FABRIC



### CURRENT FLAME RETARDANT CONCERNS

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.



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

			READY TO USE	CONCENTRATED FR (only used as FR additive in formulations)	HALOGEN & ANTIMONY-FREE	PH (100%)	WATER SOLUBILITY	DURABLE	NON DURABLE	SOAKING RESISTANT	DRY CLEANING RESISTANT	TEMPERATURE SENSITIVE	APPLICATION				
													PADDING	EXHAUSTION	COATING	FOAMING	SPRAYING
IGNIFUGANTE EXECOFR3	Organic phosphorus compound for exhaustion. Permanent flame retardant for PES fiber. Fullfils EN 1021 part 1 & 2, EN 532, NF G 07-184 ó NF P 92-507.	Clear liquid	X	-	X	5	dispersable	X	-	-	-	-	-	X	-	-	-
IGNIFUGANTE COW	Reactive organic phosphorus compound. Permanent flame retardant for cellulosic fiber. Compatible with easy-care finishings.	Clear liquid	X	-	X	4,5	soluble	X	-	-	X	X	X	-	-	-	-
IGNIFUGANTE TA	Organic phosphorus compound. Flame retardant for PES. Permanent. Compatible with WOR finishing (fluorocarbon resins).	Viscous liquid	X	-	X	3	soluble	-	-	X	X	-	X	-	-	-	-
IGNIFUGANTE WK	Zirconium salt derivative for permanent flame-proofing of wool fabrics.	White cristalline solid	X	-	X	4 (10%)	15,5 g/l	X	-	-	-	X	-	X	-	-	-
IGNIFUGANTE T-6	Blend of inorganic salts used for finishing of technical textiles and nonwoven. Dust-free.	Clear, greenish liquid	X	-	X	7	soluble	-	X	-	X	X	X	-	-	X	X
PRODUCT 1383	Inorganic halogen-containing salts. Non permanent flame retardant for wool and synthetic fibers (PES, PA). Compatible with WOR finishing agents as fluorocarbons.	Clear liquid	X	-	-	6	soluble	-	X	-	X	X	X	-	-	-	-
IGNIFUGANTE TSK	Inorganic phosphate salt for the flame retardant finishing of cellulose and woollen materials and their blends with synthetic fibres. suitable to pass BS 5852 source 5 requirements. capable for water soaking requirements according to DIN EN/BS 1021, Part 1.	Clear liquid	X	-	X	7	soluble	-	-	X	X	X	X	-	-	-	-
CENTERLOOK PY8	Foamable compound for obtaining fire-proof coatings on textile substrates. Gives flexible coatings with a leather-like handle. For curtains and black outs.	Greyish viscous dispersion	X	-		9 (10%)	dispersible	X	-	-	-	-	-	-	-	X	-
CENTERLOOK HF-PY7	Foamable compound for obtaining fire-proof (back) coatings on textile substrates. Gives flexible coatings. Fullfils BS 5852 part 1 & 2.	Greyish viscous dispersion	X	-	X	9 (10%)	dispersible	X	-	X	X	X	-	-	-	X	-
CENTERLOOK HF-TAG	Compound for obtaining fire-proof (back) coatings on textile substrates. Gives flexible coatings . Fullfils BS 5852 part 1 & 2.	Greyish viscous dispersion	X	-	X	9 (10%)	dispersible	X	-	X	X	X	-	-	X	-	-
RESINA CENTER LIG/3	Fire-proof resin for back-coating of hupholstery fabrics. Gives elastic and soft back-coatings.	White paste	X	-	X	7,5	dispersible	X	-	-	-	-	-	-	X	-	-
IGNIFUGANTE MT	Antimonium trioxide + 4% DIDP, dust-free. Synergistic agent for halogen flame-retardant formulations.	White powder	-	X		-	not soluble	-	-	-	-	-	-	-	X	X	-
IGNIFUGANTE ALH	High purity hydrated aluminium hydroxide. Flame retardant for flame-proofing of polymers and waterborne resins.	White powder	-	X	X	-	not soluble	-	-	-	-	-	-	-	X	X	-
IGNIFUGANTE PV-500	Triaryl phosphate ester. Recommended as a flame retardant additive for PVC, flexible polyurethanes, cellulose resins and synthetic rubber.	Clear liquid	-	X	X	-	not soluble	-	-	-	-	-	-	-	X	X	-

ANTI-SLIP AGENTS

AMPLEX SIL-AN	Colloidal silica dispersion. Anti-slip agent for finishing applications. Anionic, can be usde in combination with resins, softeners, fluorochemicals and majority of finishing auxiliaries. Anyway, preliminary trials are always recommended.
AMPLEX F-30	Cationic colloidal silica dispersion. It is an aqueous dispersion of a polymer designed to increase the friction and abrasion coefficient of yarns and fabrics. Antislip agent preventing tissue distortion caused by landslides warp and weft that occur in certain articles of man-made fibers. It is compatible with cationic and nonionic products. It can be applied together with water repellents.

ANTI-STATIC AGENTS

ANTISTA-TICO H NUEVO	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 any kind of fiber (flock, cable, piece). Is stable to hard water, electrolytes and acids under standard concentrations.
ANTIESTA-TICO 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.
ANTIESTA-TICO P-552	Anionic fatty acid derivative. Antistatic for synthetic fibers. Gives high antistatic effect for all kind of synthetic fibers, particularly polyester. Doesn't impair thermomigration and rubber fastness. Doesn't modify the shade of dyes and whiteness.

# SANITIZING AGENTS

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



Broad preservative spectrum for the most varied products and articles:

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

Effective protection against:

- Mites
  - Bacteria
  - Fungi
- Algae
  - Yeasts

## SANITIZING AGENTS

CENTERBAC AG	Silver ions dispersion deposited on inorganic matrix. Anionic. Excellent bacteriostatic qualities against a wide range of gram- positive and gram-negative bacteria including MRSA and against yeast and fungi, preventing bacterial growth and thus the production of bad odors. Applicable on all types of fibers, particularly recommended for synthetic fabrics even those in contact with skin.
UNIBACTER K-30	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.
CENTERBAC 29-BTC A.C.	Special polymer, antimicrobial for textiles. Cationic. It is a bactericide with a broad spectrum 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 shirting, upholstery, sheets, blankets, underwear, socks, towels, disposable diapers, awning, insoles for shoes, shower curtains, etc.
CENTERBAC DC4 DIDP	Antimicrobial and fungicide for plastics whose active ingredient is 4,5- Dichloro - 2 n -octyl - 4 - Isotioazolin - 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.
UNIBACTER IM	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 og goods intended for canopies, awnings, fabric for tents, shower curtains and in general, outdoor items subjected to weathering or in contact with water.
CENTERBAC M	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.
CENTERBAC VR-6	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.
CENTERBAC RW	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 application.
CENTERBAC ZP30	Fluid aqueous dispersion of zinc pyrithione. Provides antibacterial and antifungal properties on home tex- tiles, 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.
CENTERBAC TP-30	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...

# MICROENCAPSULATED AND CONTROLLED RELEASE PRODUCTS

## CONTROLLED RELEASE TECHNOLOGY FOR LONG-LASTING FINISHING EFFECTS

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 dermatological 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 AND CONTROLLED RELEASE PRODUCTS

CENTERFINISH OND	Fatty acid derivate in an aqueous solution. Odour killer, to be applied on all kind of surfaces. Stable in alkaline conditions, for acidic cnditions previous trials are recomended.
CENTERFINISH RMF	White dispersion of an organic complex. Anionic. Provides mosquit repellence to the treated fabric. Can be applied on all kind of fibers or garment,especially on cotton, polyester and its blends.
CENTERFINISH AM	Self-emulsifying concentrate. Nonionic. Imparts insect repellence on wool and its mixtures. Based on permethrin. Provides resistance to moths to a value of 3 as “ Wools of New Zealand”, especially in carpets and rugs.
CENTERFINISH DCI NUEVO	Special product for the anti-stress finishing of fabrics, based on Tourmaline (particle size: 3µm). Nonionic. Renders the treatd fabrics with anti-stress properties, also activates negative ions thus providing a feeling of natural wellness. Recommended for synthetic fibres.
CENTERFIN- ISH ALV	Synergistic blend of natural extracts. Slightly cationic. Contains Chitosan and Aloe Vera thus providing to the finished fabric moisturizing and hydrating properties.
CENTERFINISH AR (generic name)	Microcapsules dispersion containing a variety of perfumes upon customer request, gives to the fabric different kinds of frangances like: Vanilla, Strawberry, Orange, Apple, Mint, Rose, Lavender, Red Berry, Lemon, Jasmine, Peach, etc. Can be applied by exhaustion, padding, coating or printing process.
CENTERFINISH CDV	Microcapsules with a low melting point paraffin. Thanks to PCM technology, absobrs or re- leases heat according to body requirements. Therefore it helps to keep a comfortable body temperature.
CENTERFINISH GINSENG	Microcapsules based on the concept of aromatherapy, contains ginseng extract among other active ingredients. Confers energizing and anti-stress properties to treated fabrics.

More scenting agents available.





## 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

		APPEARANCE	FAMILY	pH	T(Cº)
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., ...	liquid	protease	10	40
UNILITE II-S	Eco-designed product, specifically formulated and buffered for Denim discoloration, does not affect the lycra.	powder	laccase	4-5	60-70
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.	powder	peroxidase	4.5-5	25-35
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 ..	liquid	pectinase	6-9	50-60
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.	liquid	combi	4-8	50-60
UNIZIM CRO EXTRA CONC	Cellulase + alpha-amylase, concentrated. Achieves excellent abrasion effect on the denim simultaneously to the preparation process, minimizes indigo backstaining.	powder	combi	6.5-7.5	40-55
UNIZIM CRO	Cellulase + alpha-amylase. Achieves excellent abrasion effect on the denim simultaneously to the preparation process, minimizes indigo backstaining.	powder	combi	6.5-7.5	40-55
UNIZIM MPD	Alpha-amylase + pectinase. Bioscouring and desizing in one step, without adding detergents, wetting agents, or pH regulators.	liquid	combi	6-8	40-60
UNIZIM PTM	Neutral cellulase containing antibackstaining and buffering agents to pH 6.0-7.5. For use in jeans abrasion (stonewashing).	powder	neutral cellulase	6-7.5	45-60
UNIZIM N-10/C	Powder formulation of a neutral cellulase together with buffer and antibackstaining. Stonewashing for denim.	powder	neutral cellulase	6-7.5	50-60
UNIZIM DR	Used for biopolishing, it can be used before, during or after dyeing.	liquid	neutral cellulase	5-8	50-60
UNIZIM D-LT	Designed for biopolishing, it can be used before, during or after dyeing. Also for denim.	liquid	neutral cellulase	5-8	35-45
UNIZIM D-LT/2 nuevo	Neutral cellulase containing antibackstaining. Recommended for biopolishing, it can be used before, during or after dyeing.	liquid	neutral cellulase	5-9	35-45
UNIZIM CNB Plus	Recommended for biopolishing. The product is suitable for working in garment and fabric (piece) facilities (jet, overflow, etc. ). Excelent pice/quality ratio.	liquid	neutral cellulase	5-8	50-60
UNIZIM LVM	Recommended for biopolishing.	liquid	acid cellulase	5-5.5	50-55
UNIZIM TCL	The product is suitable for working in garment and fabric (piece) facilities (jet, overflow, etc, ... ).				
UNIZIM CLB	Different concentrations available.				
TERMINOX Ultra 50		liquid	catalase	6-8	40-60
UNIZIM EFR-15	Specifically decomposes the residual hydrogen peroxide present on tissue and in the treatment bath into no active oxygen and water.				
UNIZIM L XO	Overdosing of the product can not affect the dyeing nor tissue.				
UNIZIM ultra OX	Different packaging and concentrations.	liquid	alpha-amylase	5-10	20-85
UNIZIM XT-L	Keeps effectiveness over a broad pH range.				
UNIZIM DSL/130	No negative effects on fabric resistance thus improving quality.				
UNIZIM H conc.	Wide range of working temperatures. Different concentrations available.	liquid	alpha-amylase	5.5-7.5	40-80
UNIZIM TVX	Enzyme + detergent. Keeps effectiveness over a broad pH range.				
UNIZIM AMT	No negative effects on fabric resistance thus improving quality.			5-7.5	
AQUAZYM PS-L	Alpha-amylase enzyme. Designed specifically for Pad-Steam.	liquid	alpha-amylase	5.5-7.5	80-115

APPLICATION PROCESS

CONTINUOUS   DISCONTINUOUS   GARMENT   DENIM

-	X	-	-
-	-	X	X
-	X	-	X
X	X	-	-
-	X	X	X
-	-	X	X
-	-	X	X
X	X	X	-
-	-	X	X
-	-	X	X
-	X	X	X
-	X	X	X
-	X	X	-
X	X	X	-
X	X	X	-
X	X	-	-



# WASTEWATER TREATMENT

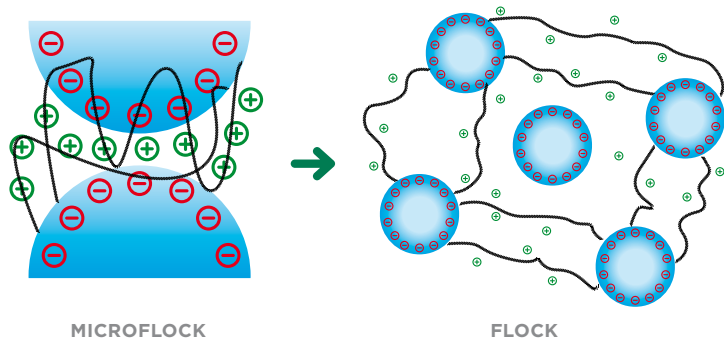
COMPLETE SOLUTIONS FOR WATER TREATMENT



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.

## FLOCCULANTS AND COAGULANTS

CENTERFLOC		IONIC CHARACTER	MOLECULAR WEIGHT	VISCOSITY (25°C cPs)	CONCENTRATION (%)
TA	Decolourizing agent/coagulant.	cationic	low	< 1000	50
MGC	Decolourizing agent/coagulant.	cationic	low	< 1000	40
PA -30 PA -5010 PA -5009	Polyamine based coagulant.	cationic	high (standard) medium very high	< 1000	50
MAC -5016 MAC -5015 MAC -5013 MAC -5014	Polyamine based coagulant.	cationic	very high (standard) medium very high ultra high	8000-12000 500-1000 12000-15000 > 15000	40
C GRANOS	Polyacrylamide, flocculant, granulated.	anionic	very high	N.A.	90 min.
F-ANG	Reverse emulsion flocculant.	cationic	ultra high	500-2000	50

## DEFOAMERS

		pH	VISCOSITY (25°C cPs)	CONCENTRATION (%)
COMPLEX EV	Antifoam based on vegetable esters, highly biodegradable.	7-9	ca. 1800	24
COMPLEX 1646	Silicone-based defoamer, highly effective.	6-8	ca. 1000	16
ANTIESPUMANTE SAE	Mineral oil and organic waxes based defoamer.	5-8*	ca. 500	100

(\*): 10% in water solution.

## BIOLOGICAL AND NUTRIENT SOLUTIONS

		pH	ACTIVITY
CENTERFOOD XL	Biological nutrient.	7	C.O.D. (mg O <sub>2</sub> /g) 500-600
CENTER MICRO LF	Lyophilized non-pathogenic bacterial spores.	N.A.	n. col./g: 1x10 <sup>9</sup>

## SPECIALTIES

		pH
CENTERFLOC F-RUM	Wastewater deodorizing.	11-12 <sup>(1)</sup>
AMPLEX BO-85	Lyophilized non-pathogenic bacterial spores.	11-12 <sup>(2)</sup>
AMPLEX DEOX	Dissolved oxygen scavenger for boilers.	5-6 <sup>(3)</sup>
AMPLEX RO-723	Antifouling for reverse osmosis membranes.	2-3 <sup>(3)</sup>

(1): pH 10% · (2): pH 1% · (3): pH 100%



# **COLOR CENTER**

**TECHNICAL DEPARTMENT  
R&D**





OFFICIAL DISTRIBUTORS  
FOR SPAIN AND PERU



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PYME INNOVADORA  
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