FINISHING

color center

Developing chemistry
for the future

COLOR CENTER
Colorantes y Productos Químicos
Dyes & Chemical Products

TÜV NORD
TÜV NORD CERT GmbH
ISO 9001

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.

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

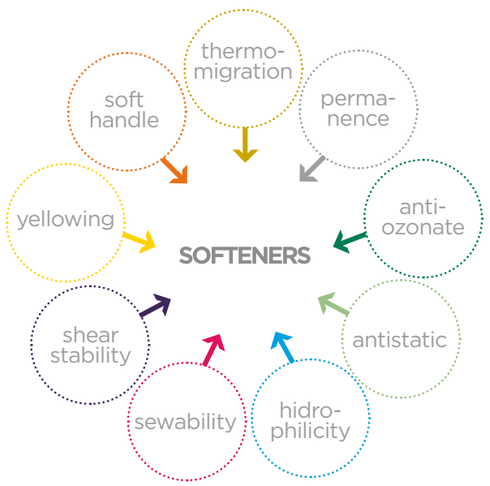
However, functionality & aesthetics alone is no longer enough to meet the requirements of millions of end-users. Sustainability and ecology also need to be taken into consideration for life at home, at work or outdoors to be more secure, efficient and healthier.

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

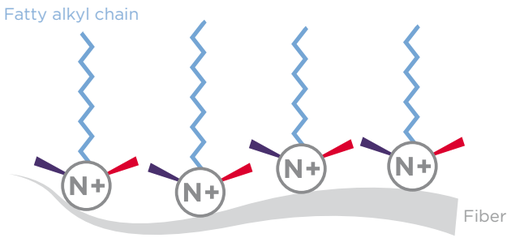
SOFTENERS

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, hidrophillicity and countless other properties can be adjusted depending on the softener and textile substrate type.

SOFTENERS

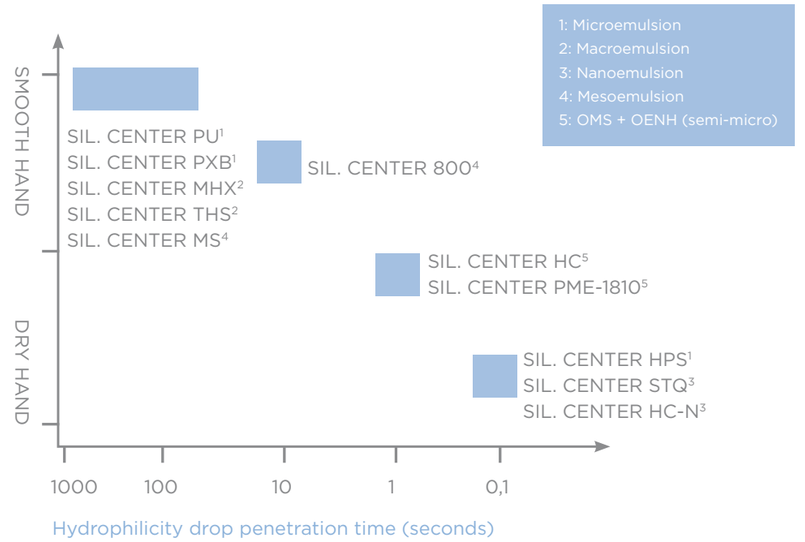
		Solid content (%)	ph 10(%)	Viscosity 25°c (cps)	Ready to use	Concentrated	Ionicity	Appearance	Hydrophobicity	Hydrophilicity	Handle	Low yellowing high heat resistance	Durability	Lubrication (sewability)	Thermomigration improvement	Anti-Ozonate	APPLICATION Padding	Exhaustion	Coating
PRODUCTO R22	Oleic esterquat, easy handling at low temp., rapid dispersion lin cold water. Good softening & antistatic & rewetting properties. Readly 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. Readly 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. Readly 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. Readly 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. Readly 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 fibers, 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 yelowing 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

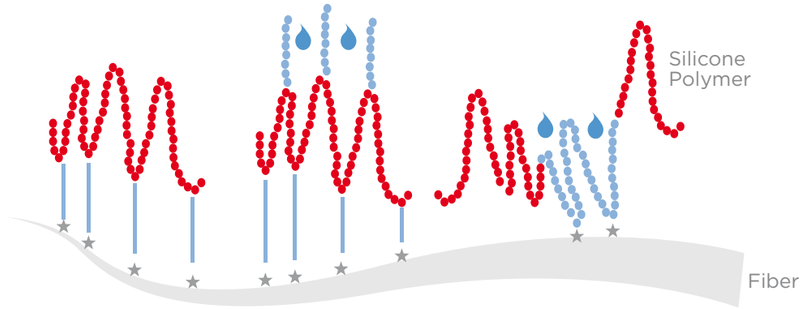
SILICONES

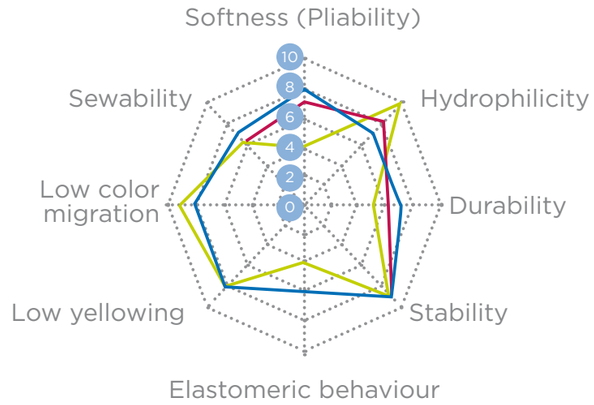
TEXTILE ENHANCERS: CUTTING-EDGE TECHNOLOGY IN SILICONE POLYMERS AND EMULSIONS

COMPARISON OF PRODUCT PROPERTIES ON COTTON FABRIC



DESIGNING THE RIGHT POLYMER MICROSTRUCTURE TO GET THE BEST PERFORMANCE





SILICONES

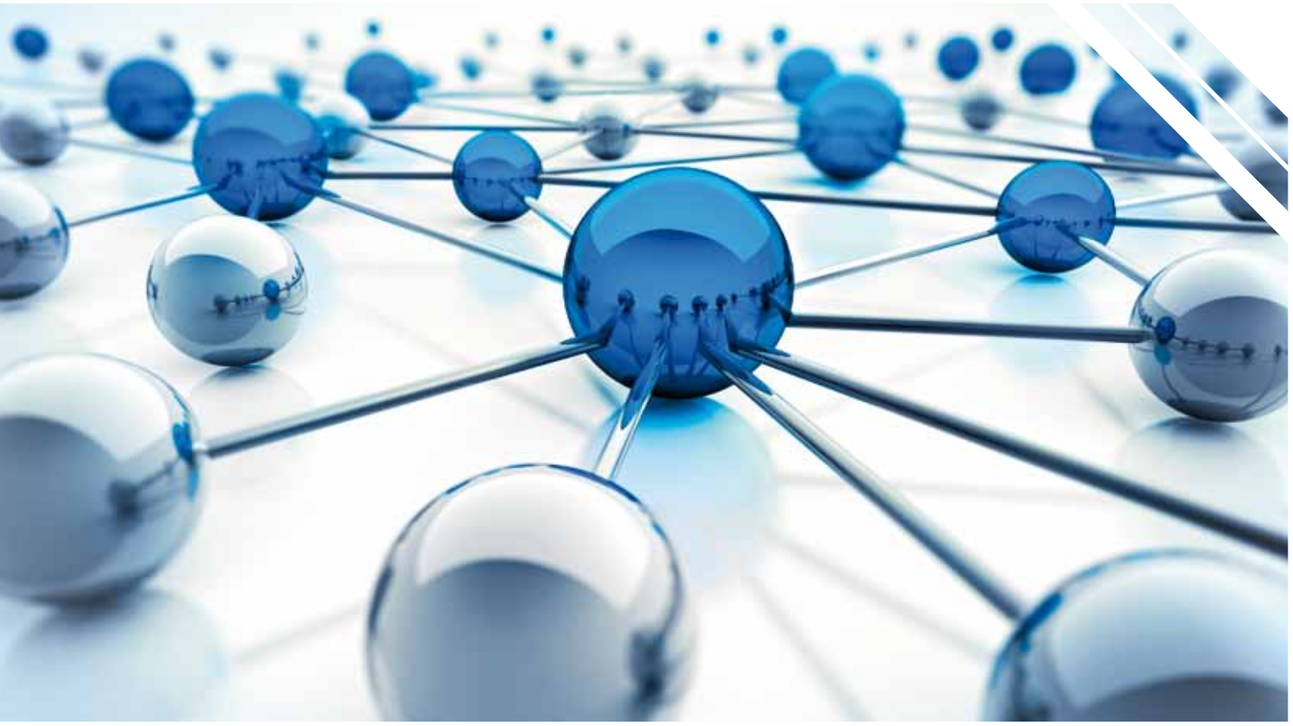
		SOLID CONTENT (%)	IONICITY	PARTICLE SIZE	HANDLE	LOW YELLOWING HIGH HEAT RESISTANCE	ELASTOMERICITY	DURABILITY	LUBRICATION (SEWABILITY)	pH STABILITY	SHEAR STABILITY	APPLICATION		
												PADDING	EXHAUSTION	COATING
SILICONA CENTER DEP	Silicone macro emulsion, color deepening agent.	40	non ionic	macro	-	-	-	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 dessigned for garment finishing	30	cationic	micro	-	4	2	3	4	3	3	X	-	-

1: Low · 2: Medium · 3: Good · 4: Excellent

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 25º C (mPas)	MODULUS 100 (mPa)	TEXTILE STRENGHT (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	Amphoteric /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	Amphoteric /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

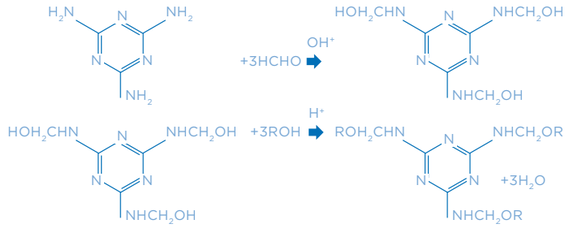
		COMPOSITION	SOLID CONTENT (%)	IONIC CHARACTER	PH (10%)	FORMALDEHYDE CONTENT (%)
RESINA CENTER CDL CONC.	Crosslinking agent with low formaldehyde content for easy-care finish of cellulosic fibers and their blends with synthetics. Application by foulard.	Modified N-hydroxymethyldihydroxy-ethyleneurea	58	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-hydroxyethyl-ene-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, slop 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

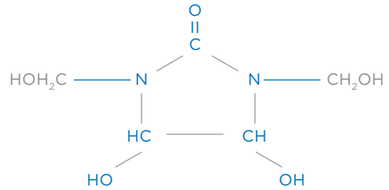
Melamine has become an integral part of our daily lives. It is used in laminates, dinnerware, adhesives and specialty coatings for paper and textiles.

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





DMDHEU

ACRYLIC, VINYL & LATEX

		COMP.	SOLID CONTENT (%)	APEO-FREE	Tg (ºC)	MTFF (ºC)	IONIC CHARACTER	VISCOSITY mPAS 25ºC	SELF-CROSSLINKING	pH 10%
RESINA CENTER AC-60	Waterborne acrylic resin. Gives soft, clear coatings, without residual tack. Recommneded for floking 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 selvedge sizing.	Acrylic copolymer	50	yes	38	-	A	<200	yes	3,0-4,0
RESINA CENTER NUEVA	Waterborne acrylic-styrene copolymer. Givees 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 gloosy coatings, residual tack. Good adhesion, recommended for sizing, flocking and coating. It can also be appied by exhaustion for cationizing and sizing. Not compatible with anionic producs 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 confortable 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 confortable 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 25ºC (cPs)	pH t.c.	RECOMMENDED APPLICATION TEMP. (ºC)
PRODUCTO ICB	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 ICL	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 LAD	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 BI-125	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 MG	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 ZN	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

		IONIC CHARACTER	WASH FASTNESS	FIBER TYPE: COTTON	FIBER TYPE: SYNTHETIC	APPLIC. METHOD: FOULARD	APPLIC. METHOD: 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 polydimethysiloxane.	N	X	X	X	X	-
CENTERFOB HC	Permanent water repellent based on reactive polydimethysiloxane.	C	X	X	X	X	-

FLUOROCARBONS

		IONIC CHARACTER	LOW TEMP. CURING	FIBER TYPE: COTTON	FIBER TYPE: SYNTHETIC	APPLICATION FIELD: AWNING	APPLICATION FIELD: TABLE LINEN	APPLICATION FIELD: DRESS, CLOTHES & WORKWEAR	APPLICATION FIELD: 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?

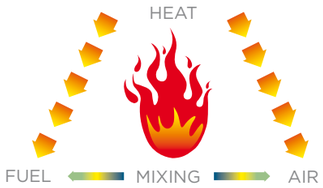
Flame retardants are chemicals which are added to combustible materials to render them more resistant to ignition.

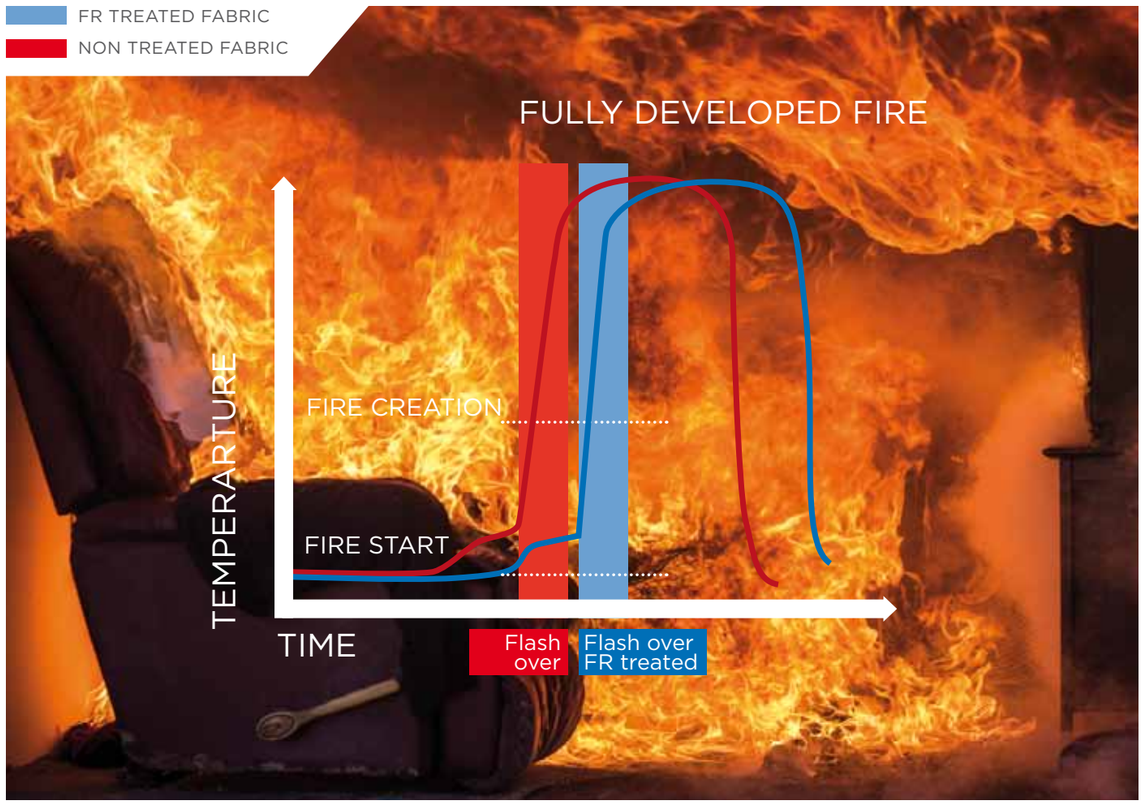
The protection of human body is essential in situations of risk, heat or flames. With this mind, **Color Center**, S.A., offers our FR range of products, in order to provide the required levels of safety and protection.

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 popagate a fire:
the fuel, the air and the heat.
It's enough to interfire on one of those factors to break the cycle.

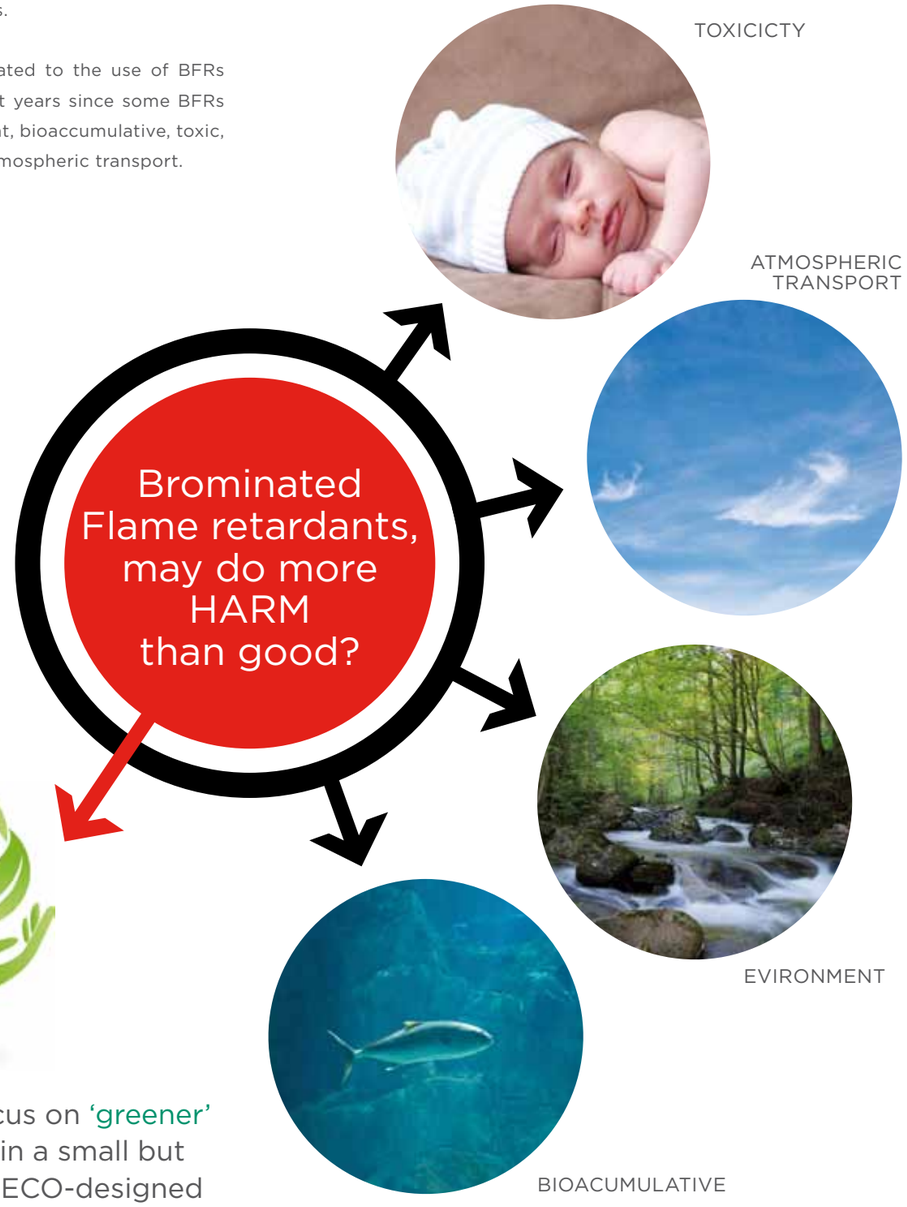




CURRENT FLAME RETARDANT CONCERNS

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 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 pyretroids. It is a product developed to repel insects like mosquitoes, mites, moths, termites, fleas, ants, lice... Confers fastness to washing at 40ºC 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 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.
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 fragances 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 releases heat according to body requierements. 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.


COLOR CENTER
TECHNICAL DEPARTMENT
R&D

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Developing chemistry for the future

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TÜV NORD
TÜV NORD CERT GmbH
ISO 9001

PYME INNOVADORA
Válido hasta el 31 de diciembre de 2018
GOBIERNO DE ESPAÑA
MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD