

Product Catalogue of Textile Chemicals

Taking your textile a big step further
in the value chain



Finishing Agents & Silicones

Breathe New Life into Your Textiles: AVCOchem's Innovative Finishing Solutions



FINISHING AGENTS

Yarn Lubricant

01



Fatty Acid
Derivative

02



Hydrophilic
Softener

03



Special Softener

04



Wrinkle Free
Resin

05



AVCOchem[®] Directory

Special finishing
agent

06



SILICONE EMULSION

Micro Silicone

07



Macro Silicone

08



FINISHING AGENTS

Imagine transforming ordinary fabrics into high-performance materials that repel stains, resist wrinkles, and feel luxuriously soft. This isn't magic; it's the power of AVCOchem's cutting-edge textile finishing program.

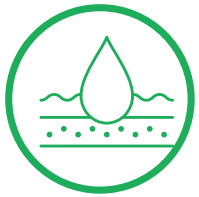
We go beyond simply treating textiles, we modify their very surface, imbuing them with a vast array of desirable properties. Envision flame retardancy for ultimate safety, enhanced moisture-wicking for activewear, or antimicrobial finishes for lasting freshness. The possibilities are endless.

At AVCOchem, we're constantly pushing the boundaries of textile finishing, developing not only new products but also new techniques that minimize environmental impact. Rising energy costs and waste disposal concerns are growing challenges, and we're committed to solutions. That's why water and energy efficiency are paramount in our development process.

We believe in a greener future for the textile industry. That's why we actively promote and support the adoption of water-saving, energy-efficient, and chemical-reduction technologies. Our formulations and additives are designed with sustainability in mind, and we're here to guide you towards selecting the most eco-friendly options for your needs. With AVCOchem's innovative finishing program, you can breathe new life into your textiles, enhance their performance, and contribute to a more sustainable future.



Fatty Acid Derivative



Hydrophilic Softener



Special Softener



Wrinkle free resin



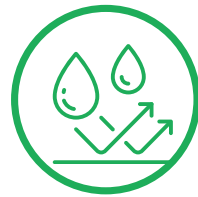
Anti-microbial treatments



Weightener



Flame Retardant



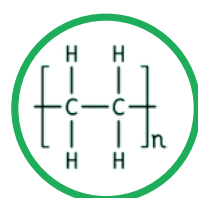
Water and oil repellents



Stiffeners



Anti-UV treatment



Polyethylene softener



Polyurethane softener

Yarn Lubricant

PRODUCT NAME	PROPERTIES	APPLICATION
Softener for polyester & nylon sewing thread AVCO-LUBROSIL MTL	  Blend of silicone fluid and additive	- Polyester & nylon sewing thread - Good head protection and needle cooling during sewing - Reduces fiber/metal and fiber/fiber coefficient of friction - Good lubricant for polyester and nylon sewing thread . - Applied by hot lick roll method
ROOM/WARM Tem-Thread lubricant AVCO -LUBRSIL CLR	- Blend of silicone fluid and additive - Milky white, viscous liquid - Non-miscible with water at any ratio 	- Polyester & nylon sewing thread - Good head protection and needle cooling during sewing - Reduces fiber/metal and fiber/fiber coefficient of friction - Good lubricant for polyester and nylon sewing thread - Applied by cold or hot lick roll method
ROOM Temp - Thread Lubricant / Winding thread at room temperature SYNTO-FLUID 1000	- Polydimethylsiloxane - Non-miscible with water at any ratio	- Polyester & nylon sewing thread - Applied to the thread by cold lick roll method
Paraffin emulsion for yarn lubricant AVCO-LUB HLA	- Low foaming - Nonionic - No yellowing with excellent softness and smoothness 	- Cotton & Polyester & All fibres & Blends. Woven & Knit - Enhances surface smoothness of the fiber/ yarn and reduces fiber/metal and fiber/fiber friction - Softener for cotton and acrylic knitting yarns - Imparts anti-static properties to treated yarns - Used for finishing cotton, wool, poly-acrylic and blends of these fibres - Used as a softener for fabrics, which improves very much the sew-ability of the treated fabric
Fatty Acid ester for yarn lubricant AVCO-FIBERLUB CW	  - Slightly viscous liquid - Weak cationic	- Cotton & Polyester & All fibres & Blends.Woven & Knits - Softener for cotton and cotton blended yarns after dyeing - Non yellowing with excellent softness and smoothness . it is very suitable for weaving and knitting yarns. - No adverse effect on the color fastness.

Fatty Acid Derivative

PRODUCT NAME	PROPERTIES	APPLICATION
Fatty Acid Derivative Softener AVCO-SOFT CSNY	• Cationic • Liquid,Hard water stable • A hydrophilic and non yellowing fabric softener.	• Imparts high softness and smooth hand to the treated fabric. • Used for softening all types of fibers, yarns, fabrics and garments. • Used in a full range of dispersion concentrations with excellent storage stability and easy formulation. • Cotton & Polyester & All fibres & Blends. Knit and woven fabrics.
Fatty Acid Derivative Softener AVCO-SOFT CSA 100	• Cationic • Produced in grains which are easily soluble in cold water. • Highly concentrated product	• Imparts soft hand with high smoothness to the surface • Softener in granule form used for softening all kinds of fibres, yarns, fabrics and garments • Cotton & Polyester & All fibres & Blends. Knit and woven fabrics.
Fatty Acid Derivative Softener AVCO-SOFT ET 10	• Weak Cationic • Highly concentrated product • Flake form	• Imparts a soft hand with high surface smoothness • Can be applied for all kind of fabrics • Especially creating a very good smooth feeling for polyester fabrics. • Cotton & Polyester & All fibres & Blends. Knit and woven fabrics.
Fatty Acid Derivative Softener AVCO-SOFT NI 100	• Highly concentrated softener • Nonionic	• Softener used for finishing cellulosic and synthetic fabrics and their blends • Can be used in the padding process in conjunction with resins, catalysts, optical brighteners, PVA and Poly-acrylates • Cotton & Polyester & All fibres & Blends.Woven & Knits



Hydrophilic Softener

PRODUCT NAME

PROPERTIES

APPLICATION

Hydrophilic Softener
AVCO-NAV SR 300

- Bluesign Registered
- Hydrophilic copolymer
- Nonionic



- A durable comfort-finishing
- Soil-release, antistatic agent for polyester and other synthetic fibres.
- Polyester-Polyamide-Acrylic-Blends. Woven fabric & Knits & Denim

Hydrophilic Softener
AVCO-EXTRASOFT VC

- Micro emulsion of silicone polymer
- Weak cationic

- Imparts a very soft and smooth finishes, and especially compatible with resin finishing, it makes the resin film soft and hydrophilic. Used for soil-release finish
- Woven fabric & Knits & Towels. Cotton & Blends

Hydrophilic Softener
AVCO-ELASIL WNE

- A self dispersing amino-functional silicone
- Weak cationic



- Used for finishing towels and underwear fabrics, and any other textiles that need high quality re-wetting properties
- Modified with special hydrophilic silicone which imparts good hydrophilic properties
- Woven fabric & Knits & Towels. Cotton & Blends

Hydrophilic Softener
**AVCO-ELASIL WNE
2320**

- A self dispersing amino-functional silicone
- Cationic



- Used for finishing towels and underwear fabrics, and any other textiles that need high quality re-wetting properties
- Modified with special hydrophilic silicone which imparts good hydrophilic properties.
- Cotton & Polyester & All fibres & Blends. Woven & Knits



Hydrophilic Softener

PRODUCT NAME

PROPERTIES

APPLICATION

Soil-release & hydrophilic
Softener
AVCO-NAV SRV

- White dispersion
- Nonionic

- Durable comfort finishing, wicking agent, soil-release, and antistatic agent for synthetics such as nylon, polyester and their blends
- Render synthetic fabric fluffy and soft hand feel.
- Cotton & Polyester & All fibres & Blends. Woven & Knits

Comfort finishing ,Soil-release
agent
AVCO-NAF NY 200

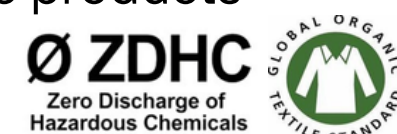
- Binary polymer of polyester with poly-ether
- Yellow brown liquid
- Non-ionic.



- A durable comfort-finishing, wicking agent, soil-release
- Antistatic agent for polyester, nylon and its blends Excellent hydrophilic, wicking properties
- Renders polyester and nylon fabrics with fluffy and soft hand-feel
- The treated fabrics will become comfortable to wear
- No effect on the whiteness and color shade of the treated fabrics.
- Cotton & Polyester & All fibres & Blends. Woven & Knits

Hydrophilic Softener
AVCO-ELASIL JWH

- Micro-emulsion of silicone polymers
- Slightly cationic
- Compatible with non-ionic and cationic products



- Giving special smooth an soft handle. Good hydrophilic and soil release properties.
- Non yellowing on white yarns an fabrics. Improves dimensional stability of knits; improves sewability of treated farics. Imparts wash and wear properties.
- Used for all types of fibres.The product is recommended for softening towels, socks and underwear fabrics when hydrophilic finish is required.
- Cotton & Polyester & All fibres & Blends. Woven & Knits



Special Softener

PRODUCT NAME	PROPERTIES	APPLICATION
Special Softener AVCO-FINISH DREAM	- Hydrophobic character - Weak cationic	- Cotton & Polyester & All fibres & Blends . Woven & Knits - Elastomeric polymer preparation with a build in reactive functional end-groups - Provide high-grade softness along with stretchy finish and bounciness to textile fabrics properties
Polyethylene Softener AVCO-SOFT PE	- Polyethylene emulsion - Nonionic	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Excellent resin plasticizer, fibre lubricant and softener, and adds drape to fabrics treated with thermosetting resins - Improve tearing strength of fabric
Polyurethane Softener AVCO-SOFT PU	- Poly- Urethane softener - Weak cationic	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Imparts a soft, bulky and smooth touch to the treated fabrics without affected to the color fastness - Excellent soil release effects are realized because of the combination of hydrophilic and cross-linking properties of AVCO-SOFT PU film
Elastomeric Finishing AVCO-ELASTOGUM RD 68	- Aqueuos emulsion of amino modified silicone - Incompatible with anionic products - Nonionic, be comes cationic in acidic medium  	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Connecting three-demensional into textile fabrics. Imparts smooth and soft handle along with good elasticity and shape recovery of the finished fabrics especially polyester and nylon - Gives special softness and smoothness suitable for fabrics, especially KT Silk fabric. - Lowers pilling and abrasion of textile farics. - Improves the handle feel for "wash and wear" resins finishing
Cooling finishing Softener AVCO-ELASTOSIL CO 88	- Cooling finishing agent - Weak cationic	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Special softener designed for cooling finish on cellulosic, synthetic and the blended fabrics. - Imparts to the treated fabric a comfortably cool feeling together with softness and smoothness - Improves the dimension stability

Wrinkle Free Resin

PRODUCT NAME

PROPERTIES

APPLICATION

Wrinkle Free Resin
AVCO-REZ LFD

- Modified Glyoxal resin
- Anionic

- Cotton & Blends. Woven fabric.
- DMDHEU resin with very low free and release formaldehyde.
- For the “wash and wear” finishing of fabrics made from cotton, rayon and blends of synthetic with cellulosic fibres.
- It is complied with Eco-Tex standard.

Wrinkle Free Resin
AVCO-REZ LFD PLUS

- Clear yellow to brown liquid
- Anionic

- Cotton & Blends. Woven fabric
- DMDHEU resin containing in its composition latent acid catalyst needed for curing the resin
- Used for “Easy care” or “Wrinkle free” finishing of fabrics made from cellulose, and polyester-cotton by hot curing method.

Wrinkle Free Resin
AVCO- REZ LTC

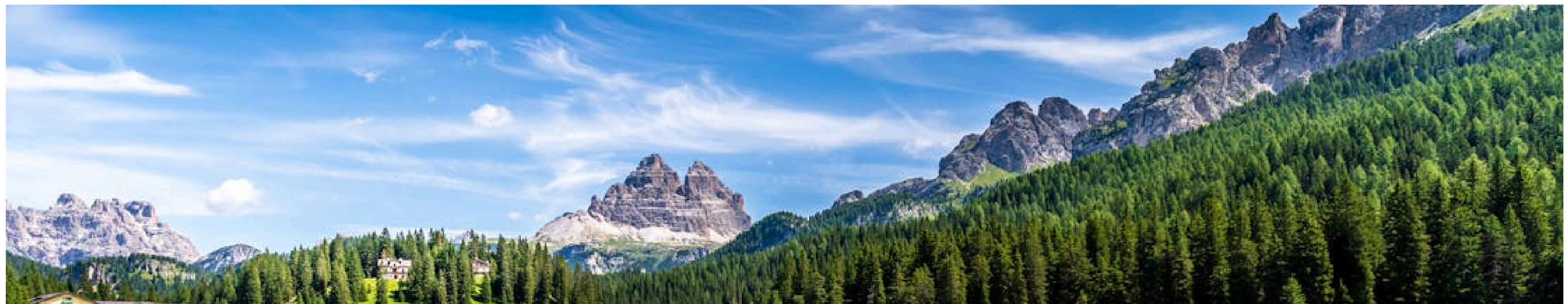
- Dilutable in cold water
- Anionic

- Cotton & Blends. Woven fabric
- A newly developed low curing temperature pre-catalysed resin with low formaldehyde.
- Applied by normal dry crosslinking methods on fabric
- Used for wrinkle free finishing of fabrics and garments with minimum loss of strength

Catalyst
AVCO-CATALYST PMC

- Compound of organic and inorganic acid donors
- Cationic

- Cotton & Blends. Woven fabric
- Catalyst used resin finishing with DMDHEU and DMI resins
- Enables lower curing temperatures or shorter fixation times than with usual catalysts



Special finishing agent

PRODUCT NAME	PROPERTIES	APPLICATION
Napping Aid Softener AVCO-SOFT NI	Nonionic	- Cotton & Polyester & All fibres & Blends. Woven & Knits - A nonionic softener which imparts a soft hand with high surface smoothness, can be applied for all kind of fabrics.
Napping Aid Softener AVCO-NAP FS	Cationic	- Cotton & Polyester & All fibres & Blends . Woven & Knits - A pilling gent, support for snapping process of polyester, acrylic and TC fabric. After finish with AVCO-NAP FS, the fabric texture is smooth, uniform and fine wool.
Anti- Curling Agent AVCO-FLEX EL	- Anti curling agent - Nonionic	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Special finishing agent, which is used to prevent selvedge curling of knitted fabrics during processing - Suitable for all kinds of fibres, such as cotton, cotton-lycra, polyester and blends
Anti- Microbial Agent AVCO-GARD SIL	- Anti microbial - Cationic	- All kinds of textile fibres, synthetic natural and blends. Woven & Knits - Universal antimicrobial finish which is recommended for bacteriostatic and fungistatic finish of textiles in direct contact with human skin - Conforms to various OeKotex 100 Standard
Anti- Ozone Fading AVCO-SOFT OZF	- Anti ozon fading softener - Cationic	- Indigo dyed cotton. Denim. - Imparts a soft handle to denim fabrics, and to protect indigo dyed fabric against ozone fading - Not fade or turn yellow on the back side when exposed to polluted air environment
Phenolic Yellowing Inhibitor AVCO-GARD AY	- Opaque colorless liquid - Anion - Miscible with water at any ratios	- Polyamine & Blends. Woven & Knits - Prevents discoloration during storage of textile articles made from polyamide and cellulosic fibres which caused by the poluted air environment - Prevents yellowing of white textile articles packed in BHT bags - Suitable for application by exhaustion and by continuous processes - Can be applied in one-step dyeing and finishing process of polyamide



Special finishing agent

PRODUCT NAME	PROPERTIES	APPLICATION
Uv Absorber Agent AVCO-PROTECT UVP	• Macro molecular Polymer • Cationic	• Cotton & Polyester & All fibres & Blends. Woven fabric. • a UV absorber which can be applied to cotton, hemp, viscose, wool and polyester fiber and its blended fabrics. • Reducing the permeability of treated fabrics to UV rays, give the fabric obvious UV shelding effect and it is washable.
Flame Retardant Agent AVCO-FLAM PT-100	• Flame Retardant Agent	• Polyester & Polyamide & Blends. Woven fabric. • A flame retardant suitable for using with Acrylic, PVC and other aqueous polymer dispersions on natural and synthetic fabrics such as polyester, polyamide, polypropylene cellulosic fabrics etc. • The product is applied by coating, printing and padding processes.
Flame Retardant Agent AVCO-FLAM PT-100P	• Powder type flame retardant	• Polyester & Blends. Woven fabric. • Gives polyester or blended fibers excellent flame retardant properties. • The product is applied by coating, printing and padding processes.
Stiffening Agent AVCO-FULL BX	• Stiffening agent • Weak anionic • Good chemical stability	• Cotton & Polyester & All fibres & Blends. Woven & Knits. • Designed to increase the stiffness and full handle on all kinds of fabrics • Highly recommendation for expensive synthetic materials • No occurrence of chalk marks
Stiffening Agent AVCO-FULL TM	• Stiffening agent • Anionic	• Cotton & Polyester & All fibres & Blends. Woven & Knits. • A cost-effective stiffening agent for all kinds of textiles • Imparts a fully stiffness with low dosage. Non-Yellowing product

Special finishing agent

PRODUCT NAME	PROPERTIES	APPLICATION
Water & Oil Repellent Agent AVCO-PHOB FC 6410	• Aqueous emulsion of fluorocarbon Co-polymer (C6) White emulsion • Amphoteric. Miscible with water at any ratio • Can be used in neutral and acidic finishing bath	• Cotton & Polyester & All fibres & Blends. Woven & Knits • Free PFOA and excellent water and oil repellent . Good dry soil removal • The finish is resistant to repeated laundries with excellent durability, and no effect on the breathability and handle of the treated fabrics . • Good wash and dry-cleaning fastnesses Good breathability. No catalyst addition is needed
Water & Oil Repellent Agent AVCO-PHOB NF	• Non-flourine water repellent • Weak cationic  	• Cotton & Polyester & Polyamide & Wool & Blends. • Produces permanent water repellent finishes on articles of all fibres such as Cellulosic and synthetic fibres, wool and their blends • Optimum water repellency effect, and good breathability.
Color deepening Agent AVCO-DEEPENER 7900	• Colour intensifier • Nonionic	• Cotton & Polyester & All fibres & Blends. Woven & Knits • Increase the depth of dyed polyester, cotton and their blended fabrics. Produces astounding JET Black, in bluish shade. • Excellent durability stable to multiple washing and dry-cleaning cycles
Weightening Agent Agent AVCO-FINISH WMA	• Weightening agent • Nonionic	• Cotton & Polyester & All fibres & Blends. Woven & Knits. • Suitable weightening all kinds of fabric such as wool, polyester, cotton etc. • Can effectively make-up the lost weight in former treatment processes with weight added at range of 3-15%



Special finishing agent

PRODUCT NAME	PROPERTIES	APPLICATION
Wet rubbing fastness improving Agent AVCO-FAST RV	• Free from formaldehyde • Cationic/ Nonionic	• Woven & Knits . Cotton & Blends • A special finishing chemical for improving wet rubbing fastness properties of dyeing on cellulosic fibres, cellulosic blends with reactive dyes, indigo, sulphur and vat dyes • Film formation is very good. Wet rubbing fastness properties are improved even for emerised fabrics
Anti-Static Agent AVCO-STAT AHM	• Aqueous compound of hydrophilic synthetic polymers. • Light yellowish, clear, slightly viscous liquid. • Non-ionic. Compatibility with anionic products	• Woven & Knits. Polyester & Blends. • Excellent anti-static properties • Wash resistant anti-static finish without hot curing. • Does not impair the softness and smoothness of treated fibers. • Suitable for co-application with hydrophilic finishing agents. • Compatible with mild acids. Can be applied by padding, exhaustion and dipping processes.
Wicking agent AVCO-WICK DMM	• Aqueous dispersion of hydrophilic polyurethane . Colorless to light yellowish, clear to slightly turbid liquid • Non-ionic. Can be used together with non-anionics, and cationics	• Polyester & Polyamide & Polyacrylic & Acetate & Blends. Woven & Knits & Denim. • Permanent hydrophilic properties to synthetic fabrics • The finish is resistant to mild washing • Imparts wear comfort and quick dry properties. Imparts typical soft handle to the treated fabrics • Non-yellowing product, the finish can be over dyed easily • Imparts anti-static properties to the treated fabrics • Enables easy and smooth handling of fabrics during making-up and sewing processes
Anti-thermomigration textile silicone AVCO-ELASIL AMS	• Anti-thermomigration textile silicone • Weak cationic	• Woven & Knits. Polyester & Blends. • Impart an elegant touch with extraordinary softness, slickness and bulkiness to the finished fabrics. • Overcome the issue of thermo-migration of disperse dyes during heat setting on polyester and its blends

SILICONE EMULSIONS

WHAT IS SILICONE

Silicones are polymers that include silicon together with carbon, hydrogen, oxygen and sometime other chemical elements. Silicones are also called polysiloxanes. Silicones are used in a very wide diversity of applications. Especially in textile industry, silicones represent important auxiliaries for processing and finishing.

SILICONE EMULSIONS

Silicone fluids are not soluble in water. We need to convert these silicone fluids into emulsion. An emulsion is a thermodynamically stable isotropic low-viscosity mixture of at least one polar, one non-polar and one surfactant substance. The polar or the non-polar component is in the form of fine droplets.

In the case of silicone emulsion:

- polar substance is water
- non-polar substance is silicone fluid
- surface active substance is emulsifier
- thermodynamically stable means the emulsion must have at least 6 months of storage stability at a storage temperature between 1-30°C.



TYPES OF SILICONE EMULSION

PRODUCT CHARACTERISTICS

PARTICLE SIZE

Small
<80 nm

HAND FEEL

Inner softness

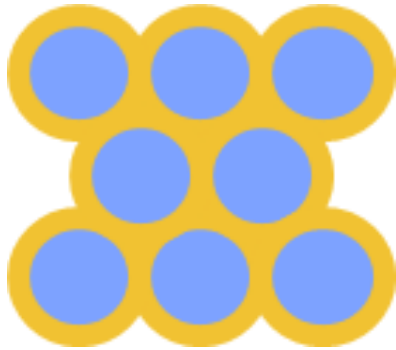
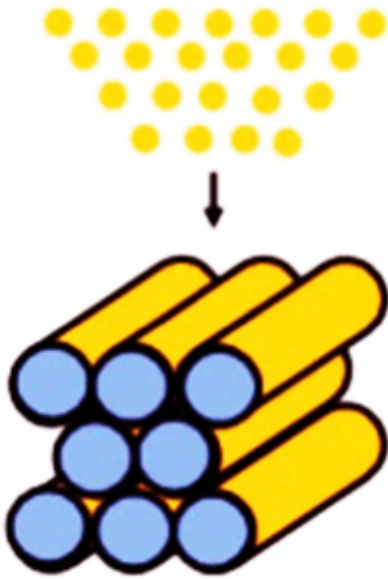
STABILITY

Good

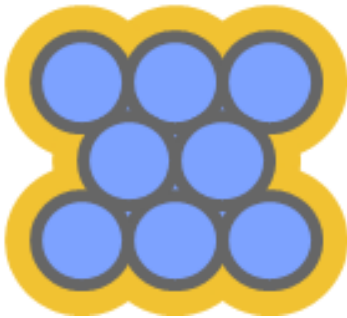
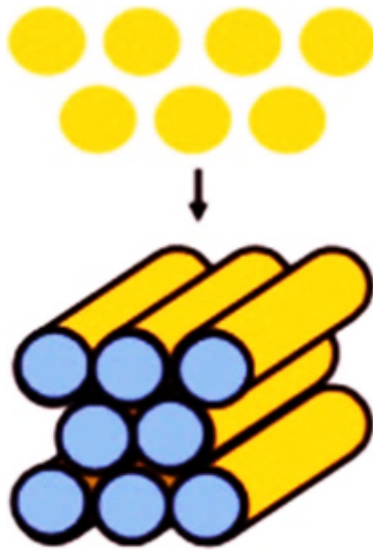
APPEARANCE

Transparent

MICRO SILICONE



MACRO SILICONE



Big
<100nm

Surface smooth,
oily

Average

Milky



Micro Silicone

PRODUCT NAME	PROPERTIES	APPLICATION
Micro Silicone AVCO-ELASIL 9016	- A micro-emulsion of amino-modified silicone elastomer. - Cationic	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Produces very soft, and elastic hand feel to a wide range of fibers such as cotton, polyester, viscose and their blends. - It can be applied by padding or by exhaustion and dyeable after finishing
Micro Silicone AVCO-ELASIL 3920	Amino silicone elastomer in micro emulsion	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Imparts smooth, soft handle, elastic to the treated fabric.; very good for OE-fabrics - Used for finishing all kinds of fibers.
Micro Silicone AVCO-ELASIL 5224	- Silicone emulsion - Cationic 	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Micro-emulsion of amino-block silicone - Applied by padding or by exhaustion and dyeable after finishing. Very less yellowing
Micro Silicone AVCO-ELASIL 3930	- Silicone emulsion - Cationic 	- Cotton & Polyester & All fibres & Blends. Woven & Knits - A micro-emulsion of amino-modified silicone elastomer, - Used for softening textile. It imparts to the fabric a durable elasticity, softness, lubricity, sew-ability, smoothness and shine finish.
Micro Silicone AVCO-ELASIL 8025	- Silicone emulsion - Cationic	- Cotton & Polyester & All fibres & Blends. Woven & Knits - A micro-emulsion of amino-modified silicone elastomer with excellent bath stability used for finishing textiles. - It can be applied by padding or by exhaustion and dyeable after finishing
Micro Silicone AVCO-SOFT 400	- Silicone emulsion - Cationic 	- Cotton & Polyester & All fibres & Blends. Woven & Knits - A micro-emulsion of amino-modified silicone elastomer, - Used for softening textile. It imparts to the fabric a durable elasticity, softness, lubricity, sew-ability, smoothness and shine finish.
Micro Silicone AVCO-ELASIL WBF-01 NEW	- Silicone emulsion - Nonionic becomes cationic in acid medium	- Cotton & Polyester & All fibres & Blends. Woven & Knits - Silicone elastomeric softener in micro-emulsion - Non-yellowing property. Very suitable for white goods of all kinds of fiber materials.

Macro Silicone

PRODUCT NAME	PROPERTIES	APPLICATION
Macro Silicone AVCO-ELASTOGUM 6150	- Macro emulsion of amino-modified silicone - Nonion	- Woven & Kint . - Cotton & Polyester & All fibres & Blends - Used for high grade finishing of knitted and woven fabrics by the padding process - Covers the fibre's surface and imparts very soft drappable and elastic hand feel to woven and knitted fabrics
Macro Silicone AVCO-ELASTOGUM 5140	- High concentrated amino-blocked silicone elastomer - Cationic 	- Cotton & Polyester & All fibres & Blends. - Woven & Knits. - Gives super stretch performance with outstanding handle and superior softness, smoothness on cotton knits and woven and all blends - Imparts bulky finish - Very less yellowing
Macro Silicone AVCO-ELASTOGUM 3640	- Concentrated amino- modified silicone elastomer - Cationic	- Cotton & Polyester & All fibres & Blends. - Woven & Knits. - Imparts durable elasticity, softness, lubricity, sew-ability, smoothness and shine finish - Does not adversely affect the shade or color fastness of colored article
Macro Silicone AVCO-ELASTOGUM MFW CONC	- Amino-modified silicone. - Cationic	- A macro emulsion of amino-modified silicone., which is covering the fibre' s surface and imparts - A very soft, drappable,and elastic hand-feel to woven and knitted fabrics.
Macro Silicone AVCO-ELASTOGUM 9090	- Amino-blocked silicone - Cationic	- Cotton & Polyester & All fibres & Blends. - Woven & Knits - Modified silicone macro soft paste creates a soft, silky, and loose feeling

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