



## AVCO PRODUCTS HAND BOOK FOR THE TEXTILE INDUSTRY

Taking your textile a big step further in the value chain



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# SIZING AGENTS

Sizing is the most important term for weaving technology. It consists of finding the perfect size materials combination to apply on the wrap yarn to form on its surface a film with the aim of improving yarn smoothness and tenacity during the subsequent weaving stage taking into account the desizing process. AVCO supplies sizing products and processes to fulfil all customer requirements for either classical weaving or modern high speed weaving.

## BENEFITS OF THE PRODUCT AVCO-SIZE

- Easy swelling, save cooking time & energy
- Produces higher weaving efficiencies
- Flexible sizing film, very high binding capacity and individual threads are easily separated during the critical stages of drying, therefore the high speed of sizing machine is possible. Manufactured to a consistent chemical and physical specification conforming to BS, EN, ISO standard/
- Less broken sizes, dust, lint formation in weaving room.
- Less consumption comparing with conventional sizes: according to the construction, reduced from 20 – 30%.
- No need add wax in sizing recipe in most cases.
- Easy desizing, there are some kinds of AVCO-Size only removed by washing with hot water.

PRODUCT	COMPOSITION	YARN APPLIED	HIGH SPEED SIZING MACHINE	AIRJET LOOM	DESIZING METHOD
<b>AVCO-SIZE 250</b>	MODIFIED STARCH	CO	●●	●	ENZYME
<b>AVCO-SIZE DNC</b>	MODIFIED STARCH VS ADDITIVE	CO	●●	●●	ENZYME
<b>AVCO-SIZE DNL</b>	MODIFIED STARCH VS ADDITIVE	CO	●	●●	ENZYME
<b>AVCO-SIZE SPA 50</b>	MODIFIED STARCH VS ADDITIVE	TC,CVC	●	●●	ENZYME
<b>AVCO-SIZE VTP 01</b>	MODIFIED STARCH VS ADDITIVE	PES, TC,CVC	●●	●●	ENZYME
<b>AVCO-SIZE TC 01</b>	MODIFIED STARCH VS ADDITIVE	TC,CVC	●●	●	ENZYME
<b>AVCO-SIZE HWD 01</b>	POLYMER VS ADDITIVE	PES, TC,CVC	●●	●●	HOT WATER

●● HIGHLY SUITABLE   ● SUITABLE   ○ NOT SUITABLE

# PRETREATMENT & DYEING

The real problem in pretreatment is the removal of impurities that are not soluble in water. They cannot be removed until they have been solubilized, or at least rendered dispersible, by chemical treatment.

Avco has adapted its auxiliaries for pretreatment and bleaching to ensure optimum preparation of the material for dyeing or printing. Avco programme of auxiliaries for pretreatment is the result of many decades of experience with all the processes involved.

We assist our customers in achieving the best possible results with our products.

For Pretreatment and Bleaching we have a full range of auxiliaries such as: desizing agent (enzyme and chemicals), detergent and wetting agent, oil remover, sequestant, peroxide stabilizer.

MATERIAL	PRETREATMENT PRODUCT	DYEING AUXILIARIES	DYEING ADDITIVES	AFTER - TREATMENT AGENTS
<b>CELLULOSE &amp; BLENDS</b>	<b>DESIZING</b> AVCO-ZIM UND AVCO-ZIM 1210 AVCO-CATALYST 2308	<b>BUFFER</b> AVCO-NTROL AVCO-NTROL S	<b>ANTIFOAM</b> AVCO-ANTIFOAM H-50 AVCO-ANTIFOAM NS-100	<b>SOAPING A/G</b> AVCO-L100 AVCO-GEN PV AVCO-RON RWA
	<b>WETTING- DETERGENT</b> AVCO-BLANK JET HC AVCO-BOLIT LF HC AVCO-WET DZ AVCO-BIOSOL 1040 AVCO-BIOSOL 232D AVCO-MERCE WET AVCO-SUPRA-BLEACH AI02 AVCO-TEX CAN AVCO-WET DZ	<b>LEVELLING&amp; DISPERSING A/G</b> AVCO-LEV VAT AVCO-LEVELER 1488 AVCO-LEVELE NI	<b>DEAERATING A/G</b> AVCO-TEX CAN	<b>FIXING A/G</b> AVCO-FAST PDB AVCO-FAST RV AVCO-FIX FFC AVCO-FIX FFC-N AVCO-FIX FFC-T
<b>POLYAMIDE &amp; BLENDS</b>	<b>PEROXIDE STABILIZER</b> AVCO-STABILIZER HP AVCO-STABILIZER HSF	<b>DISPERSING AGENT</b> AVCO-DISPERSANT NS	<b>SQUESTERING A/G</b> AVCO-POLYQUEST 1096 AVCO-POLYQUEST 1096S AVCO-POLYQUEST 1096SG	<b>STRIPPING AGENT</b> AVCO-GEN PV AVCO-LEVELER NI AVCO-REDUCTON THC
	<b>PEROXIDE KILLER</b> AVCO-SAN LPD	<b>ANTI-MIGRATION AGENT</b> AVCO-ANTMIGRANT D	<b>LUBRICANT</b> AVCO-SLIP AN-50 AVCO-SLIP LB AVCO-SLIP RF	
<b>CELLULOSE &amp; BLENDS</b>	<b>BIOPOLISHING A/G</b> AVCO-SON APE 9500 AVCO-SON APE EX CONC AVCO-SON DNL-01	<b>OXIDIZING A/G</b> AVCO-SON LL PDR		
	<b>WETTING AGENTS</b> AVCO-WET DZ	<b>CATIONIZING A/G</b> AVCO-FIX PDC		
<b>POLYAMIDE &amp; BLENDS</b>	<b>OIL REMOVER</b> AVCO-BIOSOL 1040	<b>ACID DONOR</b> AVCO-CID LPH CONC AVCO-CID HTA 200	<b>ANTIFOAM</b> AVCO-ANTIFOAM H50 AVCO-ANTIFOAM NS-100	<b>SOAPING AGENT</b> AVCO-L PAM
		<b>LEVELLING&amp; DISPERSING A/G</b> AVCO-PAL AP 34 AVCO-LON NAL 03 AVCO-LON REK	<b>LUBRICANT</b> AVCO-TEX A25 I AVCO-SLIP RF	<b>FIXING AGENT</b> AVCO-FIX NRC 90 AVCO-FIX N98
				<b>STRIPPING AGENT</b> AVCO-GEN TFA



# PRETREATMENT & DYEING

MATERIAL	PRETREATMENT PRODUCT	DYEING AUXILIARIES	DYEING ADDITIVES	AFTER - TREATMENT AGENTS
<b>POLYESTER AND BLENDS</b>	<p><b>OIL REMOVER</b> AVCO-BIOSOL 232D AVCO-BIOSOL HC</p> <p><b>PRETREATMENT &amp; DYEING COMBINED A/G</b> AVCO-COMBI-BLEACH</p> <p><b>OLIGOMER REMOVER</b> AVCO-GEN DOA AVCO-PRODUCT 33036</p>	<p><b>BUFFER</b> AVCO-CID PHS NEW AVCO-CID PHS</p> <p><b>LEVELLING &amp; DISPERSING A/G</b> AVCO-LEV POL LF AVCO-POLYLEV ECO</p> <p><b>DISPERSING A/G</b> AVCO-DISPERSANT NS AVCO-DISPERSANT HT</p> <p><b>CARRIER</b> AVCO-CAR NTO</p> <p><b>OXIDIZING A/G</b> AVCO-SON AR</p>	<p><b>ANTIFOAM</b> AVCO-ANTIFOAM H-50 AVCO-ANTIFOAM NS-100</p> <p><b>SQUESTERING A/G</b> AVCO-POLYQUEST 1096 AVCO-POLYQUEST 1096S AVCO-POLYQUEST 1096SG</p> <p><b>LUBRICANT</b> AVCO-SLIP RF</p>	<p><b>SOAPING AGENT</b> AVCO-L PET NEW GEN PES</p> <p><b>REDUCTION CLEARING A/G</b> AVCO-CLEAN ORG AVCO-CLEAN ARC AVCO-REDUCTON THC</p> <p><b>STRIPPING AGENT</b> AVCO-ACCELERATOR PED-N</p>
<b>WOOL AND BLENDS</b>	<p><b>SCOURING AGENT</b> AVCO-SCOUR WS</p> <p><b>MILLING AGENT</b> AVCO-SCOUR WM</p> <p><b>PEROXIDE STABILIZER</b> AVCO-STABIQUEST HS</p> <p><b>WOOL PROTECTOR</b> AVCO-GARD PW</p>	<p><b>BUFFER</b> AVCO-CID PHS AVCO-CID LPH CONC</p> <p><b>LEVELLING &amp; DISPERSING A/G</b> AVCO-LON NAL AVCO-LON REK</p>	<p><b>ANTIFOAM \$ DEAERATING A/G</b> AVCO-TEX CAN</p> <p><b>SQUESTERING A/G</b> AVCO-POLYQUEST 1096 AVCO-POLYQUEST 1096S</p> <p><b>LUBRICANT</b> AVCO-SLIP RF</p>	<p><b>SOAPING AGENT</b> AVCO-L PAM AVCO-GEN PV</p> <p><b>FIXING AGENT</b> AVCO-FIX NRC 90</p>



# PRODUCTS CHARACTERISTICS

## ☘ SURFACTANTS : WETTING AGENT AND DETERGENT

PRODUCT	IONI CITY	ANTIFOAM	OIL REMOVING	EMULSIFYING	WETTING	DETERGENCY	PROCES S
AVCO-BLANK JET HC	N		●	●●	●●	●	E
AVCO-BIOLIT LF HC	A/N		●●	●●	●	●●	C
AVCO-BIOSOL 232D	A/N		●●●	●●	●●	●●●	C,E
AVCO-BIOSOL 1040	A/N		●●●	●●	●●	●●	E
AVCO-BIOSOL HC	N		●●●	●●	●	●●●	E
AVCO-MERCE WET	A				●		C
AVCO-PAL VIC	N		●●	●●	●●	●●	E
AVCO-SCOUR WM	A		●●●	●●	●●●	●●	E
AVCO-SCOUR WS	A		●●●	●●	●●	●●●	E
AVCO-SUPRA BLEACH AI02	N		●●	●●	●	●●	E
AVCO-TEX CAN	N	●●●		●	●●●		C, E
AVCO-WET DZ	N				●●●		C,E

A: ANIONIC N: NONIONIC ●●● EXCELLENT ●● VERY GOOD ● GOOD  
E: EXHAUSTION C: CONTINUOUS

## ☘ DESIZING AGENTS

PRODUCT	TYPE	CPB	CONTINUOUS	EXHAUSTION	DESIZING + SCOURING COMBINED	COLD BLEACHING
AVCO-ZIM UND	ENZYME	●●	●●	●●	○	○
AVCO-ZIM 120	ENZYME	●●	●	●●	○	○
AVCO-CATALYST 2308	CHEMICAL	○	●	○	●●	●●

●● HIGHLY SUITABLE ● SUITABLE ○ NOT SUITABLE



# PRODUCTS CHARACTERISTICS

## ☘ PEROXIDE STABILIZERS

PRODUCT	PROCESS	STABILITY	SQUESTERING PROPERTY
AVCO-STABILIZER HSF	E/C	●●	●
AVCO-STABILIZER HP	E/C	●	●
AVCO-STABIQUEST HS	E/C	●●	●●

E: EXHAUSTION C: CONTINUOUS ●● VERY GOOD ● GOOD

## ☘ SEQUESTERING AGENTS

PRODUCT	Fe <sup>++</sup>	Ca <sup>++</sup> / Mg <sup>+</sup>	ACTIVE MEDIUM	DYEABLE
AVCO-POLYQUEST 1096		●●	Alkali	Recommended
AVCO-POLYQUEST 1096S	●●	●●	Alkali	Suitable
AVCO-POLYQUEST 1096SG	●●●	●●	Alkali	Not suitable

●●● EXCELLENT ●● VERY GOOD ● GOOD

## ☘ BIO POLISHING ENZYMES

PRODUCT	PROCESS	ACTIVE MEDIUM	EFFECT
AVCO-SON APE 9500	E	ACID	●●●
AVCO-SON APE EX CONC	E	ACID	●●●
AVCO-SON DNL-01	E	NEUTRAL	●●

E: EXHAUSTION ●●● EXCELLENT ●● VERY GOOD



# PRODUCTS CHARACTERISTICS

## ♣ LEVELLING AGENTS/ DISPERSING AGENTS/ CATIONIZING AGENTS

PRODUCT	IONICITY	REACTIVE DYES	DISPERS E DYES	CATIONIC DYES	ACID DYES	VAT DYES	PIGMENT
AVCO-DISPERSANT NS	A/N	○	●	○	○	●	○
AVCO-FIX PDC	C	○	○	○	○	○	●●
AVCO-LEV POL LF	A/N	○	●●	○	○	○	○
AVCO-POLYLEV ECO	A	NA	●●	NA	NA	NA	NA
AVCO-LEV VAT	A	○	○	○	○	●●	○
AVCO-LEVELER 1488	A	●●	○	○	○	○	○
AVCO-DISPERSANT HT	A/N	○	●	○	○	●	○
AVCO-LON NAL 03	A/C	●	○	○	●●	○	○
AVCO-LON NAL	A	○	○	○	●●	○	○
AVCO-LON REK	C	○	○	○	●●	○	○
AVCO-PAL AP 34	A/C	●	○	○	●●	○	○

## ♣ STRIPPING AGENTS

PRODUCT	IONICITY	REACTIVE DYES	DISPERSE DYES	CATIONIC DYES	ACID DYES	VAT DYES
AVCO-ACCELERATOR PED N	A/N	○	●●	○	○	○
AVCO-GEN PV	N	○	○	●●	○	●●
AVCO-GEN TFA	C	○	○	○	●●	○
AVCO-REDUCTON THC	NA	●●	○	○	○	○

A: ANIONIC N: NONIONIC C: CATIONIC

●● HIGHLY SUITABLE ● SUITABLE ○ NOT SUITABLE

NA : NOT APPLICATION

# PRODUCTS CHARACTERISTICS

## ♣ WASHING AGENTS- REDUCTION CLEARING AGENTS

PRODUCT	IONICITY	REACTIVE DYES	DISPERSE DYES	ACID DYES	VAT DYES
AVCO-GEN PES	A/N	○	●	○	○
AVCO-CLEAN ARC	A	○	●	○	○
AVCO-GEN PV	N	○	●	●●	●●
AVCO-L 100	A	●●	○	○	●
AVCO-L PAM	A/N	○	○	●●	○
AVCOL-PET NEW	A/N	○	●●	○	○
AVCO-REDUCTON THC	N	○	●●	○	○
AVCO-RON RWA	N	●●	○	○	○

## ♣ FIXING AGENTS

PRODUCT	IONICITY	REACTIVE DYES		ACID DYES	VAT DYES	PIGMENT
		Turquoise.	All colors except turq			
AVCO-FAST RV	C/N	●●	●●	○	●	○
AVCO-FAST PDB	N	○	○	○	○	●●
AVCO-FIX FFC	C/N	●	●●	○	○	○
AVCO-FIX FFC-N	C/N	○	●●	○	○	○
AVCO-FIX FFC-T	C/N	●●	○	○	○	○
AVCO-FIX NRC 90	A	○	○	●●	○	○

A: ANIONIC N: NONIONIC C: CATIONIC

●● HIGHLY SUITABLE ● SUITABLE ○ NOT SUITABLE

NA : NOT APPLICATION

# PRINTING

A high performance printing program has been developed by AVCO technical experts to meet our customers' needs and the fashion demand. This includes products for the rotary and the flat screens printing as well as specialties. Our products can be used in both printing for interior design and garments with excellent quality results.

AVCO is producing and selling a full range of pigment pastes together with the specifically adapted binders, thickeners, fixing agents and additives.

PRINTING OF	THICKENER & VISCOSITY MODIFIER	BINDER	PRINTING ADDITIVES	READY PRINTING PASTE
PIGMENT	<b>THICKENER</b> AVCO-CLEAR 150 AVCO-CLEAR CHI AVCO-CLEAR NP AVCO-CLEAR NP-02	<b>NORMAL BINDER</b> AVCO-BINDER CC AVCO-BINDER 640 AVCO-BINDER 878 AVCO-BINDER SPC-40	<b>ANTIFOAM</b> AVCO-ANTIFOAM NS-300  <b>PENETRATING &amp; DEAERATING A/G</b> AVCO-TEX CAN	<b>ELASTIC TRANSPARENT</b> AVCO-PRINT AVCO-CLEAR CB AVCO-PRINT CLEAR C45
	<b>VISCOSITY MODIFIER AND ANTI-BLEEDING</b> AVCO-PRINT JN	<b>SOFT BINDER</b> AVCO-BINDER 637 AVCO-BINDER FF-480	<b>SOFTENER</b> AVCO-PRINTOSIL EM	<b>ELASTIC WHITE</b> AVCO-PRINT WHITE W45 AVCO-PRINT WHITE WB 01
	<b>CROSS-LINKING A/G</b> AVCO-FIX FB AVCO-PRINTFIX LQ	<b>BINDER FOR NON WOVEN</b> AVCO-BINDER HTT	<b>ANTI-CLOGGING A/G</b> AVCO-PAL LUB	
REACTIVE DYES	<b>THICKENER</b> AVCO-TAN R617 AVCO-PRINT ESO	<b>VISCOSITY MODIFIER AND ANTI-BLEEDING</b> AVCO-PRINT JN	<b>OXIDIZING AGENT</b> AVCO-SON LL PDR	<b>SOAPING AGENT</b> AVCO-L 100 AVCO-RON RWA AVCO-GEN PV
	<b>FOR DISCHARGE</b> AVCO-PRINT ESO	<b>DISCHARGING A/G</b> AVCO-CHARGE RED Na	<b>PENETRATING &amp; DEAERATING A/G</b> AVCO-TEX CAN	
DISPERSE DYES	<b>THICKENER</b> AVCO-PRINT ESO AVCO-TAN D261 AVCO-TAN P5C	<b>VISCOSITY MODIFIER AND ANTI-BLEEDING</b> AVCO-PRINT JN	<b>OXIDIZING AGENT</b> AVCO-SON AR  <b>PENETRATING &amp; DEAERATING A/G</b> AVCO-TEX CAN	<b>SOAPING AGENT</b> AVCO-GEN PES  <b>REDUCTION CLEARING A/G</b> AVCO-CLEAN ARC AVCO-REDUCTON THC
ACID DYES	<b>THICKENER</b> AVCO-TAN L-316	<b>VISCOSITY MODIFIER AND ANTI-BLEEDING</b> AVCO-PRINT JN	<b>PENETRATING &amp; DEAERATING A/G</b> AVCO-TEX CAN	<b>SOAPING AGENT</b> AVCO-L PAM

# FINISHING

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 AVCO's cutting-edge textile finishing program.

AVCO textile finishing program or surface modification is carried out by different methods with a view to bringing new and wide range of physical, chemical or biological features on the surface of the textile such as: softening, stiffening, crease resisting, flame retarding, soil release effect, polishing, hydrophilicity, hydrophobicity, sanitization, surface charge, surface energy, biocompatibility and reactivity, etc

At AVCO, 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.

## ♣ YARN LUBRICANT

PRODUCT	PROPERTIES	TEMP	FIBERS
<b>AVCO-FIBERLUB CW</b>	Weak cationic	All	All
<b>AVCO-LUBROSIL MTL</b>	Blend of silicone fluid and additive	WARM Temp	PE & Nylon
<b>AVCO-LUBRSIL CLR</b>	Blend of silicone fluid and additive	ROOM/WARM Temp	PE & Nylon
<b>SYNTO-FLUID 1000</b>	Polydimethylsiloxane	ROOM Temp	PE & Nylon
<b>AVCO-LUB HLA</b>	Cationic	All	All



## ♣ FATTY ACID DERIVATIVES

PRODUCT	IONICITY	HYDRO-PHILITY	DYEABLE	PRINTABLE	FIBERS
AVCO-SOFT CSA 100	Cationic	●	●	●	All
AVCO-SOFT ET 10	Cationic	○	●	○	All
AVCO-SOFT CSNY	Cationic	●●	●	●●	All
AVCO-SOFT NI-100	Nonionic	●	○	●	All

## ♣ MICRO-SILICONES

PRODUCT	IONICITY	HYDRO-PHILITY	DYEABLE	PRINTABLE	FIBERS
AVCO-ELASIL 9016	Cationic	○	○	○	All
AVCO-ELASIL 5224	Cationic	○	○	○	All
AVCO-ELASIL 3920	Cationic	○	○	○	All
AVCO-ELASIL WBF-01 NEW	Weak Cationic	○	○	○	All
AVCO-ELASIL 3930	Cationic	○	○	○	All
AVCO-ELASIL 8025	Cationic	○	●	○	All

## ♣ MACRO SILICONES

PRODUCT	IONICITY	HYDRO-PHILITY	DYEABLE	PRINTABLE	FIBERS
AVCO-ELASTOGUM MFW CONC	Weak cationic	○	○	○	All
AVCO-ELASTOGUM 6150	Nonionic	○	○	○	All
AVCO-ELASTOGUM 5130	Weak cationic	○	○	○	All
AVCO-ELASTOGUM 9090	Weak cationic	○	○	○	All

●● HIGHLY SUITABLE ● SUITABLE ○ NOT SUITABLE



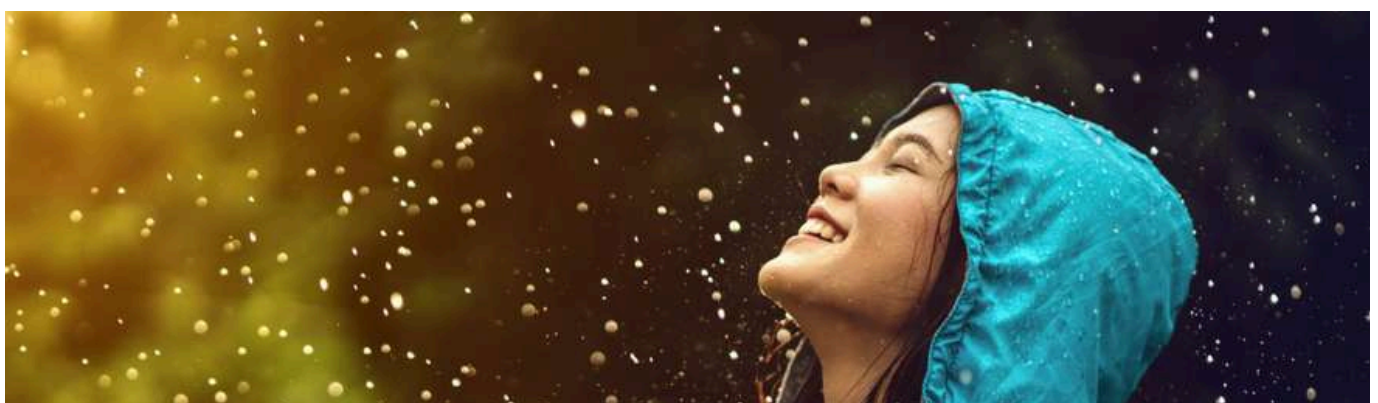
## ♣️ HYDROPHILIC SOFTENER

PRODUCT	IONICITY	HYDRO-PHILITY	DYEABLE	PRINTABLE	FIBERS
<b>AVCO-ELASIL WNE</b>	Weak cationic	●●	●	●	All
<b>AVCO-ELASIL WNE 2320</b>	Weak cationic	●●	○	●	Cotton
<b>AVCO-ELASIL JWH</b>	Weak cationic	●●	●	●	Nylon
<b>AVCO-NAF NY 200</b>	Nonionic	●●	●	●	PE,Nylon
<b>AVCO-NAV SRV</b>	Nonionic	●●	●	●	PE

## ♣️ SPECIAL SOFTENER

PRODUCT	IONICITY	HYDRO-PHILITY	DYEABLE	PRINTABLE	FIBERS
Special Softener <b>AVCO-FINISH DREAM</b>	Weak cationic	○	○	○	All
Polyethylene Softener <b>AVCO-SOFT PE</b>	Nonionic	○	○	○	All
Polyurethane Softener <b>AVCO-SOFT PU</b>	Weak cationic	○	○	○	All
Napping Aid Softener <b>AVCO-NAP FS</b>	Weak cationic	○	○	●●	PE,TC
Napping Aid Softener <b>AVCO-SOFT NI</b>	Nonionic	●	○	●●	CO
Anti-Ozone Fading <b>AVCO-SOFT OZF</b>	Cationic	○	○	○	CO

●● HIGHLY SUITABLE ● SUITABLE ○ NOT SUITABLE CO: COTTON PE: POLYESTER





## ♣ SPECIAL FINISHING AGENTS

PRODUCT	IONICITY	APPLICATION	FIBERS
<b>AVCO- FLEX EL</b>	N	Anti- curling agent/ Hồ chống cuộn biên	All
<b>AVCO- GARD SIL</b>	C	Anti-microbial/ Hồ kháng khuẩn	All
<b>AVCO- SOFT OZF</b>	C	Anti-Ozone fading agent/ Hồ chống ngã vàng Ozone	All
<b>AVCO- GARD AY</b>	A	Anti-phenolic yellowing agent/Chất chống ngã vàng phenolic	CO
<b>AVCO-PROTECT UVP</b>	A	Anti- UV agent/Hồ chống tia UV	PE
<b>AVCO-DEEPENER 7900</b>	W.A	Color intensifier/ Hồ tăng ánh	PE
<b>AVCO- FLAME PT-30</b>	A/N	Flame retardant/ Hồ chống cháy	All
<b>AVCO-NAV SRV</b>	N	Anti static & soil release agent/ Hồ chống tĩnh điện	PE
<b>AVCO- FULL BX</b>	W.A	Stiffening agent/ Hồ cứng	All
<b>AVCO- FULL TM</b>	A		
<b>AVCO- PHOB 6410</b>	C	Có-Water repellant/ Hồ chống thấm	All
<b>AVCO-PHOB NF</b>	C	Free PFC water repellant/ Hồ chống thấm nước	All
<b>AVCO-FINISH WMA</b>	N	Weightening agent/ Hồ tăng trọng	All
<b>AVCO- REZ ECO CONC</b>	A	Wrinkle free Resin/ Hồ chống nhăn	CO & Blends
<b>AVCO- REZ LFD</b>	A		
<b>AVCO-REZ LFD PLUS</b>	A		
<b>AVCO-REZ LTC</b>	A		
<b>AVCO-CATALYST PMC</b>	C	Catalyst for DMDHEU resin/ Resin	CO & Blends
<b>AVCO-ELASTOSIL CO88</b>	W.C	Cooling finishing softener/Hồ lạnh	All

**A:** ANIONIC    **C:** CATIONIC    **N:** NONIONIC    **Am :** AMPHOTERIC    **W.A :** WEAK ANIONIC  
**A/N** ANIONIC/ NONIONIC    **CO :** COTTON    **PE :** POLYESTER

## ♣ OPTICAL BRIGHTENING AGENTS

PRODUCT	IONICITY	APPLICATION	FIBERS
<b>AVCO-LUX 4BK</b>	Anion	Exhaust	CO
<b>AVCO-LUX BK-B</b>	Anion	Exhaust	CO
<b>AVCO-LUX BK-N</b>	Anion	Exhaust	CO
<b>AVCO-LUX BK-R</b>	Anion	Exhaust	CO
<b>AVCO-LUX ETB</b>	Anion	Exhaust, padding	PE
<b>AVCO-LUX ETB N</b>	Anion	Exhaust, padding	PE
<b>AVCO-LUX ETB 09</b>	Anion	Exhaust, padding	PE
<b>AVCO-LUX BA-PE 05</b>	Anion	Exhaust, padding	PE
<b>AVCO-LUX CLB NEW</b>	Anion	Exhaust	Nylon

**CO** : COTTON    **PE** : POLYESTER



## 1. SIZING AGENTS

<b>AVCO-SIZE 250</b>	A modified starch from wheat flour, widely used for warp sizing of woven fabrics. Fabric after weaving using AVCO-SIZE 250 is easy to desizing with only 80-90°C hot water and in combination with enzymes, the curing time is also faster. When used in combination with PVA will give the best weaving performance for yarns such as: TC, CVC, TR or cotton yarn weaving in high speed air looms.
<b>AVCO-SIZE DNC</b>	The compound of polymer and modified starch. It imparts economical effect, easy biodegradation and the best weaving efficiency and easier for desizing. Suitable for high count Cotton yarn and high speed weaving machine.
<b>AVCO-SIZE SPA 50</b>	Blends of modified starch and polymer, new product using the latest polymerization techniques. Sizing agent for woven TC fabric (TC 83/17, 65/35, CVC, PE 100%).
<b>AVCO-SIZE VTP 01</b>	Blends of modified starch and polymer, new product using the latest polymerization techniques, for woven TC fabric (TC 83/17, 65/35, CVC, PE 100%). Especially suitable for high speed machines.
<b>AVCO-SIZE TC 01</b>	Blends of modified starch and polymer, new product using the latest polymerization techniques. Sizing agent for woven TC fabric (Cotton and T/C).
<b>AVCO-SIZE HWD 01</b>	Medium molecular weight of special polymer and PVA, AVCO-SIZE HWD-01 dose not contain starch so is easily desized by washing with hot water at 70-90°C. Suitable for T/C, Cotton, PE for every count yarn.

## 2. DESIZING AGENTS

<b>AVCO-CATALYST 2308</b>	A combined product for desizing / kier boiling , desizing / bleaching processes. It contains a special catalyst together with a penetrating agent, detergents and extracting agents. The product is used for desizing of cotton and cotton blends in exhaustion and continuous ranges and can ensure excellent removal of starch sizing products with high TEGEWA values even of highly dense fabrics.
<b>AVCO-ZIM 1210</b>	An alpha amylase enzyme used for de-sizing of fabrics sized with starch and starch derivatives. The starch chains are degraded by AVCO-ZIM UNDP to water soluble products that can be eliminated from the fabric by washing-off and pH range of 6-7.
<b>AVCO-ZIM UND</b>	An alpha- amylase enzyme preparation for rapid desizing at a wide range of temperature from 20 – 110°C. Used in exhaust, continuous and CPB desizing processes. It also is an excellent desizing enzyme for removing starch from denim garments before the "Stone-washing" process.

## 3. DETERGENTS, WETTING AGENTS

<b>AVCO-BLANK JET HC</b>	A leading multifunctional detergent with excellent wetting, emulsifying and dispersing properties. It is highly recommended for Cotton and Elastic fabric containing spandex or lycra .Suitable for automatic dosing system.
<b>AVCO-BIOLIT LF-HC</b>	Mixture of nonionic surfactants. Good stability towards electrolytes as used in cotton bleaching and dyeing. Very versatile. Due to its excellent detergency it can be used in many wet processes such as scouring, bleaching, dyeing , soaping etc.
<b>AVCO-TEX CAN</b>	A unique antifoam and penetration accelerant with excellent de-foaming and de-aerating properties, which ensures high speed and even wetting of the treated textiles. can be used in all kind of aqueous processes such as printing, to increase penetration of the printing paste, and in pretreatment, bleaching and dyeing processes to increase the even pick-up in high-speed continuous machines. It is often impossible to work without any defoamer in the pretreatment or dyeing process, when using some special foaming auxiliaries, or when the textiles contains foaming oils and lubricants. Use of AVCO-TEX CAN ensures foam free pretreatment or dyeing processes.
<b>AVCO-WET DZ</b>	A surfactant, which possesses very good wetting property, and can therefore be used in a wide range of textile preparation and dyeing processes, such as desizing, scouring, alkali treatment, bleaching, dyeing, and finishing mainly in continuous and semi continuous machines. The product is low foaming.

## 4. WETTING AGENT FOR MERCERIZATION

<b>AVCO-MERCE WET</b>	A wetting agent which is compatible with concentrated caustic solution as used in the mercerizing process of cellulosic fabric (20 – 30° Bé). The product ensures uniform mercerizing effect and enables rapid wetting of tight woven grey fabrics even at high running speeds.
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## 5. OIL REMOVER

<b>AVCO-BIOSOL 1040</b>	An efficient detergent for oil removing for all textile materials such as cotton, rayon, synthetic and lycra . Due to the excellent emulsifying and dispersing properties, AVCO-BIOSOL 1040 is used for pretreatment, scouring and fatty, oil and grease removal . It is low foaming.
<b>AVCO-BIOSOL 232 D</b>	A concentrated, nonionic, low foaming surfactant, which imparts the degrading effect, suitable for Jet dyeing machine, high speed rotary washing machine, and high speed continuous range. It also has oil removing effect, and can be use in a wide range of pH such as in pretreatment, dyeing and finishing. Recommended for polyester and synthetic pretreatment.

## 6. SCOURING AGENT , MILLING AGENT & WOOL PROTECTOR

<b>AVVO-SCOUR WM</b>	A surfactant, which possesses very good wetting & penetration properties, and can therefore be used in wool milling processes.
<b>AVCO-SCOUR WS</b>	A surfactant, which possesses very good wetting & cleaning properties, and can therefore be used in wool pretreatment processes, such as scouring, bleaching and washing.
<b>AVCO-GARD PW</b>	A highly effective wool protection agent , which reduces the deterioration of the yarn strength and elongation caused by pretreatment and dyeing processes.

## 7. OLIGOMER REMOVER

<b>AVCO-GEN DOA</b>	A dispersing agent used in polyester dyeing, disperses the PET oligomers which diffuse out from the inside to the surface of the polyester fibres and to the dyeing liquor during the high temperature dyeing process.
<b>AVCO-PRODUCT 33036</b>	A dispersing agent used in polyester dyeing to overcome the problem of re-deposition of oligomers onto the fibre and on the dyeing machine walls as a white dust.

## 8. DEFOAMER & DE-AERATING AGENT

<b>AVCO-ANTIFOAM H-50</b>	Economic silicone antifoam. Easy dosing in various process. Recommended for preparation, dyeing and finishing processes. HT stable, suitable for wide pH range and suitable in jet dyeing machine.
<b>AVCO-ANTIFOAM NS-100</b>	Non-silicone antifoam with excellent effect, suitable for all types of pretreatment, bleaching, dyeing and finishing processes.
<b>AVCO-TEX CAN</b>	A unique antifoam and penetration accelerant with excellent defoaming and de-aerating properties, which ensures high speed and even wetting of the treated textiles. Suitable for all types of pretreatment, printing, dyeing and finishing processes.





## 9. PEROXIDE STABILIZER

<b>AVCO-STABILIZER HP</b>	A stabilizer for Hydrogen-Peroxide in alkaline bleaching of cellulose in high liquor ratio machines. It regulates and controls activation of Hydrogen-Peroxide so that usage of active Oxygen is directed mainly for the cellulose bleaching process and not to unwanted side reactions.
<b>AVCO-STABILIZER HSF</b>	A synergistic blend of organic complexes, free- silicate particularly suited for the stabilization of the peroxide in hot alkaline bleaching baths for bleaching cotton, viscose and blends with polyester. . It is free from surface active substances and is non-foaming.
<b>AVCO-STABIQUEST HS</b>	A synergistic blend of organic stabilizer and complexing agents, that provides a perfect peroxide stabilization, without the use of silicate. The use of AVCO-STABIQUEST HS counteracts the risk of pin holes caused by catalytic decomposition of peroxide by the influence of heavy-metal ions.

## 10. ONE SHOT BLEACHING AUXILIARIES

<b>AVCO-SUPRABLEACH AI02</b>	A balanced blend of complexing agents, low foaming detergents, stabilizers and activators, formulated to offer the textile dye-house a complete "one shot" bleaching auxiliary. It enables one step peroxide bleaching with high degree of whiteness and excellent absorbency of the bleached textiles.
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## 11. PEROXIDE KILLER

<b>AVCO-SAN LPD</b>	A liquid product for eliminating residues of Hydrogen-Peroxide and Chlorine from bleaching baths. It is used as an auxiliary for one-bath/two stages bleaching and dyeing of cotton and poly-cotton with reactive dyestuffs and in denim garment bleaching processes.
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## 12. BIOPOLISHING ENZYME

<p><b>AVCO-SON APE 9500</b></p>	<p>A cellulase enzyme which is degrading the glucose units in cellulosic polymers. This property enables removal of loose fibres, fuzz and pilling from cellulosis fabric surface. The result is the Bio- polishing effect. The process is suitable for cotton, polyester cotton, flax viscose, lyocell, tencel and other fabrics containing cellulosic fibres.</p>
<p><b>AVCO-SON APE EX CONC</b></p>	<p>An acidic cellulase enzyme preparation designed for reducing fuzz and pilling problems from all kinds of cellulosic fabrics and garments. It is also improving the handle of the treated fabrics and the brilliancy of the colours.</p>
<p><b>AVCO-SON DNL 01</b></p>	<p>A liquid neutral cellulase enzyme preparation, which is recommended for the bio-polishing of cellulosc fabrics at the neutral pH range. It produces a controlled hydrolysis of fine cellulose fibres protruding from the fabric surface. The result is a softer fabric with a smooth appearance and reduced pilling problems during subsequent washing processes. It is active at a broad pH range of 5 - 8.</p>

## 13. SQUESTERING AGENTS

<p><b>AVCO-POLYQUEST 1096</b></p>	<p>An excellent sequestering/dispersing agent which prevents re-deposition of impurities onto textile fibers. It loosens from the fibers and disperses in water phase metal salts, waxes, pectines and other precipitated materials found on fibres structure. It does not sequester metals which are included in dyestuff molecules .</p>
<p><b>AVCO-POLYQUEST 1096S</b></p>	<p>A unique textile auxiliary, which combines protective colloid properties together with dispersing and complexing properties. It used as a versatile additive in textile procedures such as preparation, dyeing and washing off. It has the excellent squestering effect on Fe and Ca ions.</p>
<p><b>AVCO-POLYQUEST 1096SG</b></p>	<p>A complexing and dispersing agent with iron specificity used for the alkaline pretreatment, bleaching and mercerizing processes, it also used for de- mineralization of cotton, and hence reducing catalytic damages to fibers. It also good for complexing Ca ion.</p>

## 14. AKALI BUFFER

<p><b>AVCO-NTROL</b></p>	<p>An alkali donor and buffer preparation used for dyeing cellulosis fibres with reactive dyestuff in Jet, winch and jigger machines. It ensures a stable pH level, and consequently produces a very uniform fixation of the reactive dyestuffs onto cellulosic fibres.</p>
<p><b>AVCO-NTROL S</b></p>	<p>An alkali buffer preparation in granular form, which controls the pH in the reactive dyeing liquor through the whole dyeing process.</p>



## 15. ACID BUFFER & ACID DONOR

<b>AVCO-CID PHS NEW</b>	An acidic buffer used for adjusting acidic pH in polyester dyeing and finishing processes, neutralizing alkaline bleaching and finishing baths as well as for adjusting a mild acidic pH to textile fabrics.
<b>AVCO-CID HTA-200</b>	An acid donor that creates acidity when solutions of the product are heated up. The pH of 0.1% AVCOCID HTA-200 is 6.5-7.5, and when heated to the boil the pH decreases to 4.5- 5.5. The rate of dissociation is slow in cold solution and increases while heating up.
<b>AVCO-CID LPH CONC</b>	An acid donor which evenly and slowly hydrolyzes in hot aqueous solution to produce an organic acid, which lowers the pH of the solution down to 4.0-5.5 according to the concentration in the liquor. This slow dissociation process is useful for dyeing wool and polyamide fibers, as the dyes are exhausted very evenly and produce level dyed yarns and fabrics.
<b>AVCO-CID PHS</b>	An acidic buffer used for adjusting acidic pH in dyeing and finishing processes, neutralizing alkaline bleaching and finishing baths as well as for adjusting a mild acidic pH to textile fabrics in the water as well as in the fiber structure.

## 16. LEVELLING & DISPERSING AGENTS

<b>AVCO-COMBI-BLEACH</b>	Blends of nonionic surfactants and dispersing agents designed for one bath pretreatment and dyeing process for Poly-Cotton fibres. It is able to shorten the production time and saving a lot of water and energy.
<b>AVCO-DISPERSANT NS</b>	A low-foaming dispersing agent used in dyeing of polyester, polyester blends and acetates with disperse dyestuffs. It is also used as dispersing agent in Vat dyeing and cationic stripping off processes.
<b>AVCO-LEV POL LF</b>	A new generation of levelling agent designed for the "rapid" dyeing systems of polyester in HT machines. The product imparts the excellent migration properties to the dyestuff and overcomes differences in affinity caused by the polyester fibers.
<b>AVCO-LEV VAT</b>	An anionic levelling agent with dispersing properties, for dyeing vat dyes in high liquor ratio dyeing machines and in continuous vat dyeing processes. It improves the levelling properties of vat dyes. Warp stripes and affinity differences between cottons of different origins are largely or completely covered.
<b>AVCO-DISPERSAN HT</b>	A low-foaming dispersing agent used in dyeing of Polyester, Polyester blends and Acetates with disperse dyestuffs.

## 16. LEVELLING & DISPERSING AGENTS

<b>AVCO-LEVELER 1488</b>	An excellent levelling agent for dyeing reactives. Possesses the slight affinity to the dye sites of cotton fibres, the buffering effect and the dispersing property, LEVELER 1488 is a unique additive for reactives dyeing which can improve dyed fabric appearance and assure better reproducibility of dyeing results.
<b>AVCO-LEVELER NI</b>	A versatile nonionic textile levelling agent for dyeing vat, disperse on nylon, directs and pigments. It can be also used as vat stripping agent with higher dosage.
<b>AVCO-LON NAL 03</b>	An anionic levelling agent for dyeing polyamide fibres. It has an affinity to the dye-site of the polyamide fibre and overcome barriness problems when dyeing with acid and metal-complex dyes.
<b>AVCO-LON REK</b>	A levelling agent with weakly cationic nature with affinity to acid dyestuffs. It enables better control of exhaustion of acid dyestuffs onto polyamide dye sites and improves acid dyestuffs migration properties.
<b>AVCO-NAL AP 34</b>	A levelling and dispersing agent for disperse dyes. Due to good levelling and dispersing properties, it gives the very good result when dyeing in system difficult to level such as beams and package machine.

## 17. ANTI-MIGRANT

<b>AVCO-ANTIMIGRANT D</b>	A padding auxiliary for preventing dye migration during the intermediate drying of fabrics made from synthetic and cellulosic fibres and their blends. It can be used for dyeing with pigments, disperse and vat dyes.
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## 18. CARRIER

<b>AVCO-CAR NTO</b>	An efficient dye carrier and accelerator, with very good levelling properties for dyeing polyester yarns and fabrics in atmospheric and H.T. dyeing machine. It is almost an odourless and non toxic dye carrier.
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## 19. CATIONIZING AGENTS

<b>AVCO-FIX PDC</b>	A high quality CATIONIZING AGENT, developed to obtain special dyeing effects and improve color yield on cellulosic fibers dye with aqueous anionic pigment dispersion. It has strong cationic charges, so it can make pigment dyeing full absorption and has a good washing fastness.
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## 20. OXIDIZING AGENTS

<b>AVCO-SON LL PDR</b>	A mild organic oxidizing agent, used in printing and in dyeing processes, to prevent reduction of sensitive reactive dyestuffs by reduction agents found in water, steam vapor and some chemical auxiliaries. It also used as oxidizing agent for vat dyeing processes.
<b>AVCO-SON AR</b>	A low foaming oxidizing agent for preventing shade variations caused by dye reduction in the dye-bath with disperse, reactive and direct dyes.

## 21. CREASE INHIBITORS

<b>AVCO-SLIP AN-50</b>	A unique product for dyeing of cotton, viscose, cotton blends and synthetic fabrics. It is combining excellent emulsifying along with anti-creasing properties. It is highly recommended for dyeing turquoise color.
<b>AVCO-SLIP LB</b>	A polymeric nonionic antcrease agent, developed to overcome problems of folds and rope marks when dyeing delicate synthetic fabrics in jets, winch becks and garment dyeing machines. Non foaming.
<b>AVCO-SLIP RF</b>	A nonionic, hydrophilic copolymer, which is acting as an highly effective crease preventing and gliding agent in textile preparation, bleaching, dyeing and finishing processes. Non foaming at all.

## 22. SOAPING AGENTS

<b>AVCO-L 100</b>	A non-surface active dispersing agent used for the washing-off of cellulosic fabrics and yarns dyed and printed with reactive and VAT dyestuffs. It is non-foaming at all and can be used in all type of high speed machines.
<b>AVCO-L PET NEW</b>	A surfactant especially manufactured to remove and suspend residual disperse dyes, from printed and dyed polyester, triacetate and blends of these fibres. While printing polyester blends with cellulosic fibres, AVCO L PET keeps disperse dyes from staining the cellulose part.
<b>AVCO- L PAM</b>	A surfactant specially manufactured to remove and suspend residual acid dyes from printed and dyed polyamide fabrics. While printing polyamide blends with cellulosis fibres, AVCO-L PAM prevents acid dyes from staining the cellulosis fibres.
<b>AVCO-GEN PV</b>	Nonionic polymer solution. Stripping, levelling and washing off auxiliay for directs, vat, sulphur, reactive and disperse dyestuffs. AVCO-GEN PV helps to avoid staining of white or light shade area in washing off prints or scouring yarn-dyed fabrics.
<b>AVCO-GEN PES</b>	A combination of surfactants especially manufactured to remove and suspend residual disperse dyes, from printed and dyed polyester, triacetate and blends of these fibres. Good dispersing property for oligomer.

## 23. REDUCTION CLEARING AGENTS

<b>AVCO-CLEAN ORG</b>	An environment friendly and user friendly liquid reducing agent, suitable for reduction clearing of dyeings made with disperse dyes on polyester.
<b>AVCO-CLEAR ARC</b>	A liquid cleaning agent, effective in acidic bath, suitable for reduction clearing of dyeing made with disperse dyes on polyester, polyester blends and acetate. Non hazardous at all.
<b>AVCO-REDUCTON THC</b>	A stabilized multifunctional reduction agent, used as a reduction agent in reductive bleaching processes, reduction clearing for polyester dyeing and stripping for faulty dyed fabric with for reactive or direct dyes.

## 24. FASTNESS IMPROVER AGENTS

<b>AVCO-FAST PBD</b>	A self crosslinking, fixing agent aqueous polymer dispersion, suitable for pigment dyeing of textile fabrics by exhaust with DYEFIX pigment . The fixing film when cured, is very clear, and does not impair pigment brightness and color.
<b>AVCO-FAST RV</b>	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. It is desired for correcting low wet rubbing fastness dyed fabrics.
<b>AVCO-FIX FFC</b>	A formaldehyde free fixing agent specialized on reactive dyestuff dyeing and printing after treatment. The product is designed to improve washing fastness of all shades with little color changes.
<b>AVCO-FIX FFC-N</b>	A formaldehyde free fixing agent specialized on reactive dyestuff dyeing and printing after treatment. The product obviously improves washing fastness, perspiration fastness and hot water fastness of red, coffee, black and other deep shade with little color changes.
<b>AVCO-FIX FFC-T</b>	A formaldehyde free fixing agent specialized on reactive dyestuff dyeing and printing after treatment. The product is designed to improve washing fastness of turquoise and other blue shades with little color changes.
<b>AVCO-FIX NRC 90</b>	An after-treatment agent to improve the washing fastness of polyamide microfibres dyed or printed with acid dyestuffs. Greatly improves the washing fastness of polyamide and spandex blends.
<b>AVCO-FIX N 98</b>	An after-treatment agent to improve the washing fastness of polyamide microfibres dyed with acid dyestuffs. Greatly improves the washing fastness of polyamide and spandex blends.

## 25. STRIPPING & REPAIRING A/G

<b>AVCO-ACCELERATOR PED-N</b>	An efficient migrating agent, with very good leveling properties for dyeing polyester yarns and fabrics in atmospheric and H.T. dyeing machines. Its excellent migrating power can repair the color spot effectively on the polyester fabric and its blend,
<b>AVCO-GEN PV</b>	Nonionic polymer solution. Stripping, levelling and washing off auxiliary for direct, vat, sulphur, reactive and disperse dyestuffs. AVCO-GEN PV helps to avoid staining of white or light shade area in washing off prints or scouring yarn-dyed fabrics.
<b>AVCO-LON TFA</b>	A levelling and stripping agent with weakly cationic nature with affinity to acid dyestuffs. Can be used in combination with anionic levelling agent such as AVCO-LON NAL in order to overcome barness.
<b>AVCO-REDUCTON THC</b>	A stabilized multifunctional reduction agent, used as a reduction agent in reductive bleaching processes, reduction clearing for polyester dyeing and stripping for faulty dyed fabric with for reactive or direct dyes.

## 26. THICKENERS FOR TEXTILE PRINTING

<b>AVCO-CLEAR 150</b>	A synthetic thickener for pigment printing, formulated specially for producing sharp designs when printing polyester cotton fabrics. Printing paste prepared with Clear 150 is producing excellent level and even prints, with higher color yield and brilliancy.
<b>AVCO-CLEAR CHI</b>	A synthetic thickener for pigment printing. Printing paste prepared with AVCO CLEAR CHI is producing more level and even prints with higher color yield and brilliancy even on difficult to print fabrics.
<b>AVCO-CLEAR NP</b>	A synthetic thickener for preparation of semi - emulsion and all aqueous pigment printing pastes. No need to use ammonia. It is suitable for flat screen and rotary screen printing machine.
<b>AVCO-CLEAR NP-02</b>	A synthetic thickener for pigment printing, easy for preparation. The printing paste prepared with CLEAR NP02 produces very good coverage and evenness of printed area.
<b>AVCO-PRINT ESO</b>	Modified alginate thickener, used for printing of reactive dyestuffs on cellulose, rayon and wool fabrics and for disperse printing on polyester and blends fabrics. The thickener has fast swelling properties.
<b>AVCO-TAN L-316</b>	A synthetic thickener with lower sensitivity towards electrolytes. and high speed swelling properties. Used in printing with disperse dyes on polyester fabrics or acid dyes on polyamide fabrics for producing good sharpness and brilliancy.

## 26. THICKENERS FOR TEXTILE PRINTING

<b>AVCO-TAN R617</b>	A high quality blend of acrylic synthetic polymer dispersion and natural thickeners. Suitable for printing cellulose substrates with reactive dyes. The selection of synthetic and natural thickener in the combination to make this TAN R617 is more suitable for pure cotton substrate.
<b>AVCO-TAN P5C</b>	A modified starch thickener developed for the production of disperse dyes and discharge printing paste. The printing paste prepared with TAN P5C produces high color yield, good levelness, deep penetration and soft prints.
<b>AVCO-TAN D261</b>	A synthetic thickener developed for the convenient production, handling and use of disperse dyes printing pastes.

## 27. BINDER FOR PIGMENT PRINTING

<b>AVCO-BINDER CC</b>	A high quality, high concentration binder for pigment printing on all types printing machine. It produces prints with very good fastness properties and rather soft handle. No decrease of viscosity when used with synthetic thickener.
<b>AVCO-BINDER 640</b>	A binder for organic and inorganic pigments dispersions on all kinds of textile fabrics. It can be cross linked at temperature range of 140°C – 180°C. Product does not clog printing screens even at high printing speeds, high squeegee pressure and very fine screens.
<b>AVCO-BINDER 878</b>	A binder for organic and inorganic pigments dispersions on all kinds of textile fabrics. Can be used in all aqueous or oil in water printing pastes with all types of anionic or nonionic thickeners. Product does not clog printing screens.
<b>AVCO-BINDER SPC-40</b>	A universal binder for printing all kinds of textiles with aqueous pigment dispersions. It has a little effect on the viscosity of synthetic thickeners. It is suitable for discharge printing with pigments onto reactive dyestuff grounds.
<b>AVCO-BINDER 637</b>	A self cross linking binder, which forms a soft and flexible film with good resistance to washing processes and chemical like perchloroethylene at a cross-linked condition.
<b>AVCO-BINDER FF-480</b>	A super soft binder for organic and inorganic pigments dispersions on all kinds of textile fabrics. It produces prints with very good fastness properties and the reactive printed-like handle and non Formandehyde.

## 28. BINDER FOR NONWOVEN

<b>AVCO-BINDER HTT</b>	Self- cross linking, which forms a medium hard film with good resistance to washing processes and crocking fastness. High rubbing fastness Binder for foam coating.
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## 29. VISCOSITY MODIFIER AND ANTI BLEEDING

### AVCO-ANTI-MIGRANT D

Anionic co-polymerisation product. Anti migrating agent for pigment, disperse and vat dyeings. It is also used as viscosity modifier in reactives or disperse printing paste to reduce flushing problem.

### AVCO-PRINT JN

Nonionic printing additive for pigment printing regulates print paste properties, improves print definition and stops bleeding.

## 30. CROSS-LINKING AGENT FOR PIGMENT PRINTING

### AVCO-FIXATOR LB

A special additive to pigment printing pastes, which can improve wash fastness and wet rubbing fastness of prints with high concentration of pigments. It is used for repair work of sub-standard pigment prints and dyeings, to improve wet fastness properties.

### AVCO-PRINTFIX LQ

A cross-linking agent, mainly used to improve the wet fastness of fabrics printed with pigments. It reacts only at elevated temperatures therefore no cause any blocking of screens during printing process.

## 31. SOFTENER FOR PIGMENT PRINTING

### AVCO-PRINTOSIL EM

Nonionic silicone aqueous emulsion. Softener for pigment printing. Improves handle of printed fabric and dry rubbing fastness.

## 32. ANTI-CLOGGING AGENT

### AVCO-PAL LUB

Nonionic lubricant for screen printing pasted. Solves all types of screen clogging problem.

## 33. READY MADE PRINTING PASTE

### AVCO-PRINT CLEAR CB

A high quality transparent paste which form a soft and flexible film with good resistance to washing fastness, high gloss and good elasticity. Suitable for manual or machine printing. Works well with WB 01 for high white coverage.

### AVCO-PRINT CLEAR C45

A high quality transparent paste which form a soft and flexible film with good resistance to washing fastness, high gloss and good elasticity. Works well with W 45 for high white coverage.

### AVCO-PRINT WHITE W45

A white elastic paste. Suitable for hand printing. Good bonding, fast dry and brilliant color with excellent hiding power and white degree.

### AVCO-PRINT WHITE WB 01

A white elastic paste. Suitable for manual or machine printing. Good bonding and brilliant color with excellent hiding power and white degree.



## 34. YARN LUBRICAN

<b>AVCO-FIBER-LUB CW</b>	A yarn softener used for finishing 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.
<b>AVCO-LUBROSIL MTL</b>	A Good lubricant for polyester and nylon sewing thread. Good head protection and needle cooling during sewing; Reduces fiber/metal and fiber/fiber coefficient of friction. Applied by hot lick roll method
<b>AVCO-LUBRSIL CLR</b>	A good lubricant for polyester and nylon sewing thread. Good head protection and needle cooling during sewing. Reduces fiber/metal and fiber/fiber coefficient of friction. Applied by cold or hot lick roll method.
<b>SYNTO-FLUID 1000</b>	A good polydimethylsiloxane for polyester and nylon sewing thread. Reduces fiber/metal and fiber/fiber coefficient of friction. Applied to the thread by cold lick roll method
<b>AVCO-LUB HLA</b>	Softener for cotton and acrylic knitting yarns. Enhances surface smoothness of the fiber/ yarn and reduces fiber/metal and fiber/fiber friction. Imparts anti-static properties to treated yarns.

## 35. FATTY ACID DERIVATIVE SOFTENER

<b>AVCO-SOFT CSA 100</b>	A cationic softener which imparts soft hand with high smoothness to the surface; used for softening all kinds of fibres, yarns, fabrics and garments.
<b>AVCO-SOFT ET 10</b>	A cationic softener which imparts a soft hand with high surface smoothness, can be applied for all kind of fabrics.
<b>AVCO-SOFT CSNY</b>	A hydrophilic and non yellowing fabric softener quaternary for use in household and commercial products. It can be used in a full range of dispersion concentrations with excellent storage stability and easy formulation.
<b>AVCO-SOFT NI -100</b>	Nonionic softener used for finishing cellulosic and synthetic fabrics and their blends. It is non-yellowing and imparts to the fabric a soft and full hand and can used in the padding process in conjunction with resins, catalysts, optical brighteners, PVA and Poly-acrylates, pigments or as a sole finish. Good for brushing cellulosic fabrics.

## 36. MICRO SILICONE SOFTENER

<b>AVCO-ELASIL 9016</b>	A micro-emulsion of amino-modified silicone elastomer. Produces very soft, and elastic hand feel to a wide range of fibers such as cotton, polyester, viscose and their blends.
<b>AVCO-ELASIL 3920</b>	An economical silicone softener in micro emulsion form, used for finishing all kinds of fibers. Imparts excellent soft, smooth and elastic to the treated fabric.
<b>AVCO-ELASIL 5224</b>	A micro-emulsion of amino-modified silicone elastomer used for special finish on all kinds of fibres such as slickness, resilience and softness. The effects are fast to washing and dry cleaning.
<b>AVCO-ELASIL 3930</b>	A micro-emulsion of amino-modified silicone elastomer, used for softening textile. It imparts to the fabric a durable elasticity, softness, lubricity, sewability, smoothness and shine finish.
<b>AVCO-ELASIL 8025</b>	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.
<b>AVCO-ELASIL WBF-01 NEW</b>	A silicone elastomeric softener in micro emulsion. Gives excellent touch with non-yellowing property. Very suitable for white goods of all kinds of fiber materials.

## 37. MACRO SILICONE SOFTENER

<b>AVCO-ELASTOGUM MFW CONC</b>	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.
<b>AVCO-ELASTOGUM 6150</b>	A macro emulsion of amino-modified silicone for high grade finishing of knitted and woven fabrics by the padding process. It is suitable for all kinds of fibres.
<b>AVCO-ELASTOGUM 5130</b>	A nonionic macro emulsion of a self dispersing amino-functional silicone. With hydrophilic property, it considerably improves the wear comfort of textiles.
<b>AVCO-ELASTOGUM 9090</b>	A macro emulsion of a reactive amino modified silicone fluid, which is used to apply soft, smooth and supple handle to the treated fabrics. It is suitable for all kinds of fibres.

## 38. HYDROPHILIC SOFTENER

### AVCO-ELASIL WNE

A hydrophilic silicone softener which is imparting an excellent "siliconic" handle to treated textiles. It can be used for finishing towels and underwear fabrics, and any other textiles that need high quality re-wetting properties.

### AVCO-ELASIL WNE 2320

A special hydrophilic silicone for all textiles requiring high absorbency such as towels and underwear.

### AVCO-ELASIL JWH

A micro emulsion of hydrophilic silicone. The product is recommended for softening towels, socks and underwear fabrics when hydrophilic finish is required.

### AVCO-NAF NY 200

A durable comfort-finishing, wicking agent, soil-release, and antistatic agent for polyester and its blends.

### AVCO-NAV SRV

A durable comfort-finishing, wicking agent, soil-release, and antistatic agent for synthetics such as nylon, polyester and their blends. It can render synthetic fabric fluffy and soft handfeel so that the treated fabrics will become comfortable to wear.

## 39. SPECIAL SOFTENER

### AVCO-FINISH DREAM

An elastomeric polymer preparation with a build in reactive functional end-groups. The polymer sticks to the textile fibres and is connecting them into a three dimensional elastomeric structure. It is designed to provide high grade softness along with stretchy finish and bounciness to textile fabrics.

## 40. POLYETHYLENE SOFTENER

### AVCO-SOFT PE

A nonionic Polyethylene emulsion. It is an excellent resin plasticizer, fibre lubricant and softener, and adds drape to fabrics treated with thermosetting resins (Glyoxal, UF, Melamine and PVA resins).

## 41. POLYURETHANE SOFTENER

### AVCO-SOFT PU

A poly-urethane polymer. It imparts a soft, bulky and smooth touch to the treated fabrics without affected to the color fastness. Used in wrinkle free finishing with thermosetting resin, it improves the softness and reduces the strength loss. High bath stability.

## 42. NAPPING AID SOFTENER- HỒ CÀO LÔNG

### AVCO-SOFT NI

A nonionic softener which imparts a soft hand with high surface smoothness, can be applied for all kind of fabrics.

### AVCO-NAP FS

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.).

## 43. ANTI- CURLING AGENT

### AVCO-FLEX EL

A special finishing agent, which is used to prevent selvedge curling of knitted fabrics during printing and making up processes. Suitable for all kinds of fibres, such as cotton, cotton-lycra, polyester and blends. Does not stiffen the treated fabrics.

## 44. ANTI- MICROBIAL

### AVCO-GARD RPL

An universal antimicrobial finish which is recommended for bacteriostatic and fungistatic finish of textiles in direct contact with human skin, such as sportswear, towels, blankets, socks, underwear, working clothes, shoe lining etc. It imparts a durable antimicrobial effect which conforms to the various Eco – Tex standards. Suitable for all kinds of textile fibres, synthetic natural and blends.

## 45. ANTI- OZONE FADING

### AVCO-SOFT OZF

A cationic softener which is used to impart a soft handle to denim fabrics, and to protect indigo - dyed fabric against ozone fading, thus the back side of treated denim will not fade or turn yellow.

## 46. PHENOLIC YELLOWING INHIBITOR

### AVCO-SALT AY

A finishing agent recommended for after treatment of polyamide and cellulosic fabrics and for blends with spandex to prevent discoloration or yellowing during storage which caused by the poluted air environment.

## 47. UV ABSORBER

### AVCO-PROTECT UVP

A UV absorber which reduces the permeability of polyester dense fabric or polyester yarn by UV radiation (UV-B and partly UV-A).

## 48. FLAME RETARDANT

### AVCO-FLAM PT-30

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.

## 49. SOIL RELEASE

### **AVCO-NAV SRV**

A durable comfort-finishing, wicking agent, soil-release, and antistatic agent for synthetics such as nylon, polyester and their blends. It can render synthetic fabric fluffy and soft handfeel so that the treated fabrics will become comfortable to wear.

## 50. STIFFENING AGENT

### **AVCO-FULL BX**

A stiffening agent designed to increase the stiffness and full handle on all kinds of fabrics. It is highly recommendation for expensive synthetic materials.

### **AVCO-FULL TM**

A special stiffening agent designed to increase the stiffness and bulky hand for all kinds of fabrics. Cost-effective product, imparts excellent stiffness with low dosages.

## 51. WATER & OIL REPELLENT

### **AVCO-PHOB FC 6410**

PHOB FC 2904 is used to produce excellent water and oil repellent finishing of textiles based on polyester, polyamide, acrylic, wool and cellulosic fibres and their blends.

## 52. COLOR INTENSIFIER

### **AVCO-DEEPENER 7900**

A colour deepening agent designed to increase the depth of primarily polyester and their blended fabrics., dyed in black, navy blue or dark shades by post treatment of fabric.

## 53. WEIGHTENING AGENT

### **AVCO-FINISH WMA**

A special polymeric compound, which is designed to weighten the fabric with weight added at range of 3-15%. so it can reach the standard weight after finishing.

## 54. COOLING FINISHING SOFTENER

### **AVCO-ELASTOSIL CO88**

Special softener designed for cooling finish on cellulosic, synthetic and the blended fabrics. It imparts to the treated fabric a comfortably cool feeling together with softness and smoothness.

## 55. WRINKLE FREE RESIN & CATALYST

<b>AVCO-REZ ECO CONC</b>	A modified Glyoxal resin, used as a thermosetting resin, to produce durable crease resistance and dimensional stability to cellulosic and polyester cotton fabrics. It is a low free formaldehyde product, suitable for the Eco Standard application.
<b>AVCO-REZ LFD</b>	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-Text standard.
<b>AVCO-REZ LFD PLUS</b>	DMDHEU resin which is ready made compound containing in its composition latent acid catalyst needed for curing the resin. Depending on the dosage it is used for "Easy care" or "Wrinkle free" finishing of fabrics made from cellulose, and polyester-cotton by hot curing method.
<b>AVCO-REZ LTC</b>	A newly developed low curing temperature pre-catalysed resin, contained low formaldehyde, applied by normal dry crosslinking methods on fabric and used for wrinkle free finishing of garments with minimum loss of strength.
<b>AVCO-CATALYST PMC</b>	A catalyst used resin finishing with DMDHEU and DMI resins. The product enables lower curing temperatures or shorter fixation times than with usual catalysts.







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