drop

CHEMISTRY WITH PASSION

SWISS COMPANY

Swiss
Warp Yarn Sizing
Specialist

“As long as you've got passion,
faith and are willing to work hard,
you can do anything you want in this life.”



Our company

We are a Swiss global specialty chemicals manufacturer of advanced warp sizing products and we operate in over 30 countries contributing to value creation with innovative and sustainable solutions for weaving mills.

At Drop we take our passion for innovation beyond our products and into our practices.

We have passion for challenges, continuous improvement and excellence, minimizing our impact on nature and lives.

Drop has its corporate headquarter and manufacturing plant in Stabio – Switzerland.

An extensive agent and distributor network facilitates supply and service to our customers across the globe – Americas, Europe, Africa, Middle East and Asia.

24
Distributors

4
Continents

740
Customers

150
Sizing Products

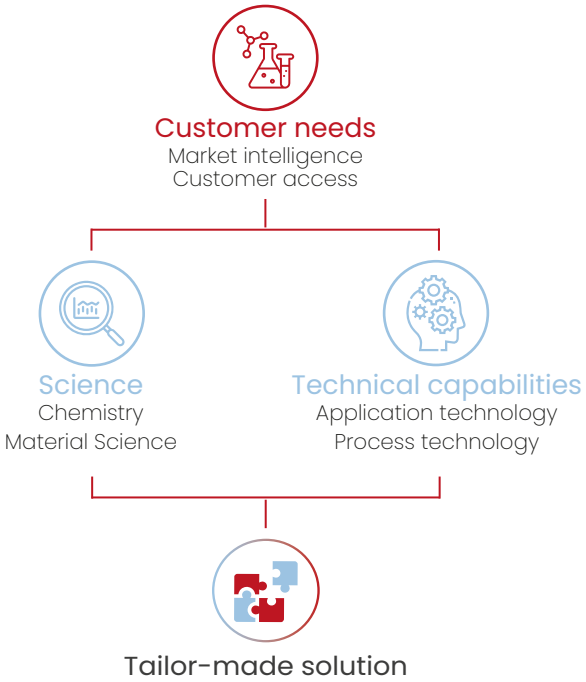


Customer-oriented company

A customer-oriented approach is the key, it leads to innovation and technical excellence.

Customer orientation is our philosophy

It's all about focusing on helping our customers meet their goals.



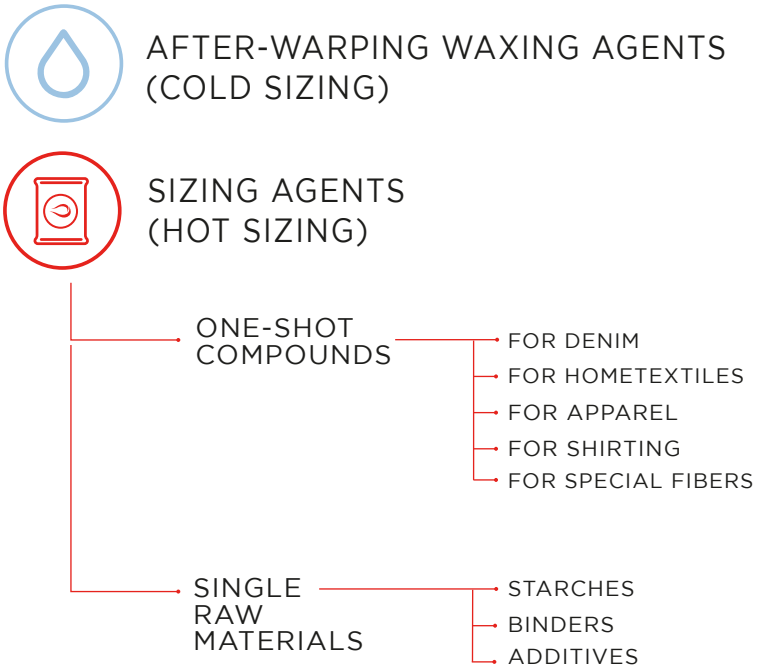




Our sizing solutions

Drop sizing products are the result of a combination of technical innovation and decades of experience in the textile industry.

We design and produce customized chemical solutions for different fields of application: not simply products or formulations, but sets of skills, capabilities, visions, developed with dedication and attention to our customers.





Cold Sizing
After-warping waxing agents

Cold sizing refers to the treatment of warp with ready-to-use sizing agents at room temperature without drying.

The application of the cold size is carried out on the sectional warping machine between the warping drum and the beaming machine. Compared to conventional hot sizing, cold sizing offers economic benefits and is mainly used for warps which normally only require a slight sizing process.

Key Properties

- Used in the sectional warping for natural and synthetic fibers.
- PVA-based or PVA-free
- Ready-to-use
- Chemically stable
- Highly Biodegradable
- Desizing without costly enzymes
- Low pick-up needed
- GOTS & ZDHC certified

	FIBERS					PROPERTIES		
	Cotton	Wool	Linen	Wool PES	Cotton PES	Viscosity	PVA-Free	Ready to use
DROPFIL A25	✓✓	✓	✓✓			L	✓✓	✓
DROPFIL P10	✓✓	✓	✓✓			L		✓
DROPFIL PW100	✓	✓✓		✓	✓	L		✓
DROPFIL W100		✓✓		✓✓	✓✓	M		✓
DROPFIL WL100		✓✓		✓✓	✓✓	H		✓
DROPFIL K10		✓✓		✓✓	✓	M		✓

✓✓ Optimum suitable ✓ Suitable Viscosity: L (Low) - M (Medium) - H (High)

Hot Sizing
One-Shot Compounds

Customized sizing solutions

We assist our customers in the identification of the best tailor-made solution to increase their weaving efficiency while keeping their costs low, throughout the production chain from the recipe preparation up to the weaving process.



Customization:
for specific industry or specific yarn type (denim, shirting, hometextile, medical...).



Low add-on:
the high film strength, abrasion resistance, and excellent adhesion of our one-shot compounds allow to reduce the refractometer level.



High weaving efficiency:
the abrasion resistance, elasticity and toughness of yarn sized with our one-shot compounds will lead to reductions in warp stops.



Excellent size bath stability:
the solutions are thermally stable and can be maintained for longer periods of time at elevated temperatures without viscosity degradation.



Ease of desizing:
our one-shot compounds dissolve readily in hot water, without the need for costly enzymes.



Ease in product handling:
only one chemical for sizing recipe with a strong reduction of human mistakes.

Hot Sizing | One-Shot Compounds
for denim

Our denim product portfolio includes unique solutions for open-end, ring and slub yarns that require a better coating over the surface to withstand the heavy abrasion, stresses and strain during the weaving on high speed looms.

ROADMAP TO ZERO

GLOBAL ORGANIC TEXTILE STANDARD · GOTS ·

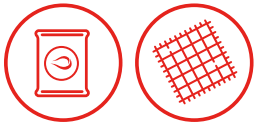
Key Properties

- Customization for specific yarn type (OE, ring, slub…) and yarn count (Ne 6 – Ne 30)
- Low add-on
- Medium-high viscosity profile
- High solubility
- Ease of desizing
- GOTS & ZDHC certified

	FIBERS		PROPERTIES		
	Ring Cotton	OE Cotton	Viscosity	PVA-Free	Desizing without enzymes
DROPSIZE A100	✓✓		M	✓✓	✓✓
DROPSIZE CC30	✓✓		L	✓✓	✓✓
DROPSIZE CC300		✓✓	H	✓✓	✓✓
DROPSIZE D100	✓✓	✓	M		✓
DROPSIZE D100 X	✓	✓✓	H		✓✓
DROPSIZE D30	✓✓		M		✓
DROPSIZE E100	✓✓		M		
DROPSIZE E100 OE	✓	✓✓	H		

✓✓ Optimum suitable ✓ Suitable Viscosity: L (Low) - M (Medium) - H (High)

Hot Sizing | One-Shot Compounds
for hometextiles



We offer a broad range of high-performance sizing agent formulated for hometextile industry and based on renewable and synthetic raw materials.

ROADMAP TO ZERO

GLOBAL ORGANIC TEXTILE STANDARD · GOTS ·

Key Properties

- Customization for specific yarn type (cotton, linen, polyester, viscose and their blends) and yarn count (Ne 14 – Ne 30)
- Low add-on
- Medium viscosity profile
- High solubility
- Ease of desizing
- GOTS & ZDHC certified

	FIBERS				PROPERTIES		
	Ring Cotton	Polyester/Cotton	Viscose	Linen	Viscosity	PVA-Free	Desizing without enzymes
DROPSIZE A25	✓✓	✓	✓✓		M	✓✓	✓
DROPSIZE CC30	✓✓		✓✓		L	✓✓	✓✓
DROPSIZE D25	✓✓	✓✓	✓		M		✓
DROPSIZE D30	✓✓	✓	✓✓		M		✓
DROPSIZE E25	✓✓	✓✓	✓		M		
DROPSIZE L5				✓✓	M		
DROPSIZE O	✓✓				H	✓✓	✓
DROPSIZE OMV	✓✓		✓✓		M	✓✓	✓✓

✓✓ Optimum suitable ✓ Suitable Viscosity: L (Low) - M (Medium) - H (High)

Hot Sizing | One-Shot Compounds
for shirting

Our product portfolio for shirting manufacturers includes solutions for fine yarn counts and dyed yarns with different colors in a single warp sheet.

By working closely with our customers, we have optimised and adapted our solutions to meet a wide variety of sizing requirements according to the continuous change in demand for different fabric styles and qualities.

Key Properties

- Customization for specific yarn type (cotton, linen, polyester, viscose and their blends) and yarn count (Ne 40/1 – Ne 120/1)
- High dry solids
- Low viscosity profile
- High solubility
- Ease of desizing
- GOTS & ZDHC certified

	FIBERS		PROPERTIES		
	Ring Cotton	Polyester/Cotton	Viscosity	PVA-Free	Desizing without enzymes
DROPSIZE E40LV	✓✓	✓✓	M		
DROPSIZE E60LV	✓✓	✓✓	L		
DROPSIZE P40LV	✓✓	✓✓	M		✓
DROPSIZE P60LV	✓✓	✓✓	L		✓
DROPSIZE SH	✓✓	✓✓	L		✓✓

✓✓ Optimum suitable ✓ Suitable Viscosity: L (Low) - M (Medium) - H (High)

Hot Sizing | One-Shot Compounds
for apparel



Our product range for apparel industry is recommended for various yarn types such as cotton, polyester, viscose, and various yarn blends, either dyed or grey yarn, to be woven on high speed machines.

ROADMAP TO ZERO

GLOBAL ORGANIC TEXTILE STANDARD · GOTS ·

Key Properties

- Customization for specific yarn type (cotton, linen, polyester, viscose and their blends) and yarn count (Ne 20/1 – Ne 50/1)
- High dry solids
- Medium viscosity profile
- High solubility
- Ease of desizing
- GOTS & ZDHC certified

	FIBERS			PROPERTIES		
	Cotton	Polyester/Cotton	Viscose	Viscosity	PVA-Free	Desizing without enzymes
DROPSIZE CC30	✓✓		✓✓	L	✓✓	✓✓
DROPSIZE D25	✓✓	✓✓	✓	M		✓
DROPSIZE E25	✓✓	✓✓	✓	M		
DROPSIZE E40LV	✓✓	✓✓		M		
DROPSIZE P40LV	✓✓	✓✓		M		✓

✓✓ Optimum suitable ✓ Suitable Viscosity: L (Low) - M (Medium) - H (High)

Hot Sizing | One-Shot Compounds
for special fibers



At Drop, we have focused on the development of environmentally friendly and cost-effective solutions for special organic fibers such as bamboo, jute and hemp that allow our customers to optimize the usage of sizing chemicals, improve sizing quality, minimise yarn breakage during weaving and ensure an adequate removal during the desizing process.

	SPECIAL STAPLE FIBER	PROPERTIES		
		Viscosity	PVA-Free	Desizing without enzymes
DROPSIZE B5	Bamboo	L	✓✓	
DROPSIZE B10	Bamboo/Cotton, Bamboo/Polyester	M		
DROPSIZE FG50	Fiber glass	M		
DROPSIZE FP100	Wool, Wool/Polyester	L		✓✓
DROPSIZE H25	Hemp	M		
DROPSIZE J20	Jute, Cotton/Jute	M		
DROPSIZE LT	Wool, Wool/Polyester	M		✓
DROPSIZE PC80	Polyester	M		✓✓
DROPSIZE V20	Viscose, tencel, modal	L		✓✓
DROPSIZE V35	Viscose, tencel, modal	M	✓✓	✓

✓✓ Optimum suitable ✓ Suitable Viscosity: L (Low) - M (Medium) - H (High)

Hot Sizing

Single Raw Materials | Starches

We offer a wide range of modified starches derived from corn, potato, and tapioca. The properties of our starch products are determined both by their botanical origin and further chemical and physical treatments.

Thanks to these modifications, the properties such as pasting temperature, viscosity, stability, washability, solubility, film-forming and adhesion power can be changed according to the specific sizing application.

Key Properties

- Different chemical modifications
- Customized viscosity profile
- Different washability according to the customer needs
- Low rate of retrogradation and high stability
- GOTS and ZDHC certified

	YARN COUNT (NE)				PROPERTIES	
	6-16	20-40	40-60	60-120	Viscosity	Washability
DROPSIZE PE 30	✓✓	✓			H	
DROPSIZE PE 50	✓	✓✓	✓✓	✓	M	
DROPSIZE PS 80	✓✓				H	✓
DROPSIZE PS 100	✓	✓	✓✓	✓✓	L	✓
DROPSIZE PS 120	✓	✓✓	✓✓	✓✓	M	✓
DROPSIZE PS 150	✓	✓	✓✓	✓✓	M	✓✓

✓✓ Optimum suitable ✓ Suitable Viscosity: L (Low) - M (Medium) - H (High)

Hot Sizing

Single Raw Materials | Binders

Our water-soluble resins based on synthetic and natural polymers are characterized by high adhesive power, abrasion resistance, flexibility and strength.

They are suitable for natural fibers as well as for synthetic staple fibers and their blends.

BINDERS BASED ON VINYL POLYMERS

DROPTEX LV:
Water soluble, low viscosity PVA suitable for all types of yarns.

DROPTEX MV:
Water soluble, medium viscosity PVA suitable for all types of yarns.

DROPTEX HV:
Water soluble, high viscosity PVA suitable for all types of yarns.

DROPSIZE PC100:
Water soluble, low viscosity vinyl copolymer suitable for polyester yarn and polyester/cotton, polyester/viscose and polyester/wool blends.

DROPSIZE ACP101:
Water soluble, medium viscosity vinyl copolymer suitable for all types of staple yarns and their blends.

DROPSIZE AC300:
Water soluble, low viscosity vinyl-acrylate copolymer suitable for all types of staple yarns and their blends.

FREE-VINYL POLYMERS BINDERS

DROPSIZE AC100:
Water soluble, low viscosity acrylic copolymer suitable for all types of staple yarns and their blends.

DROPSIZE AC200:
Water soluble, medium viscosity acrylic copolymer suitable for all types of staple yarns and their blends.

DROPSIZE RP100:
Water soluble, low viscosity polyester resin suitable for polyester yarn and polyester/cotton, polyester/viscose and polyester/wool blends.

DROPSIZE CPD:
Water soluble, medium viscosity natural copolymer suitable for cotton yarn (coarse yarns).

DROPSIZE CP100:
Water soluble, low viscosity natural copolymer suitable for cotton yarn (fine yarns).

DROPCEL 30:
Low viscosity sodium carboxymethyl cellulose polymer suitable for all types of staple yarns.

DROPCEL 300:
High viscosity sodium carboxymethyl cellulose polymer suitable for all types of staple yarns (coarse yarns).

Hot Sizing

Single Raw Materials | Additives

Our product range includes different sizing additives such as defoamers, antistatic agents, softeners, wetting agents and lubricating agents.

DROPFIL S:
Natural softener in powder, pearls and flakes form suitable for all types of yarn.

DROPSOL TR:
Lubricating agent – mineral oil free and in liquid form – specifically designed for all types of weft yarns.

DROPSOL OW100:
Mineral oil-free lubricant with excellent hygroscopic and antistatic properties to be used in the sizing bath or in the post-sizing application.

DROPSOL OW101:
Sizing additive to increase the softness and flexibility of the warp.

DROPSOL WA:
Wetting agent for all types of yarn.

DROPSOL AL:
Non-siliconic defoamer in liquid form.

DROPSOL AP:
Non-siliconic defoamer in powder form.

drop
CHEMISTRY WITH PASSION

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