

Driving innovation with pioneering spirit.

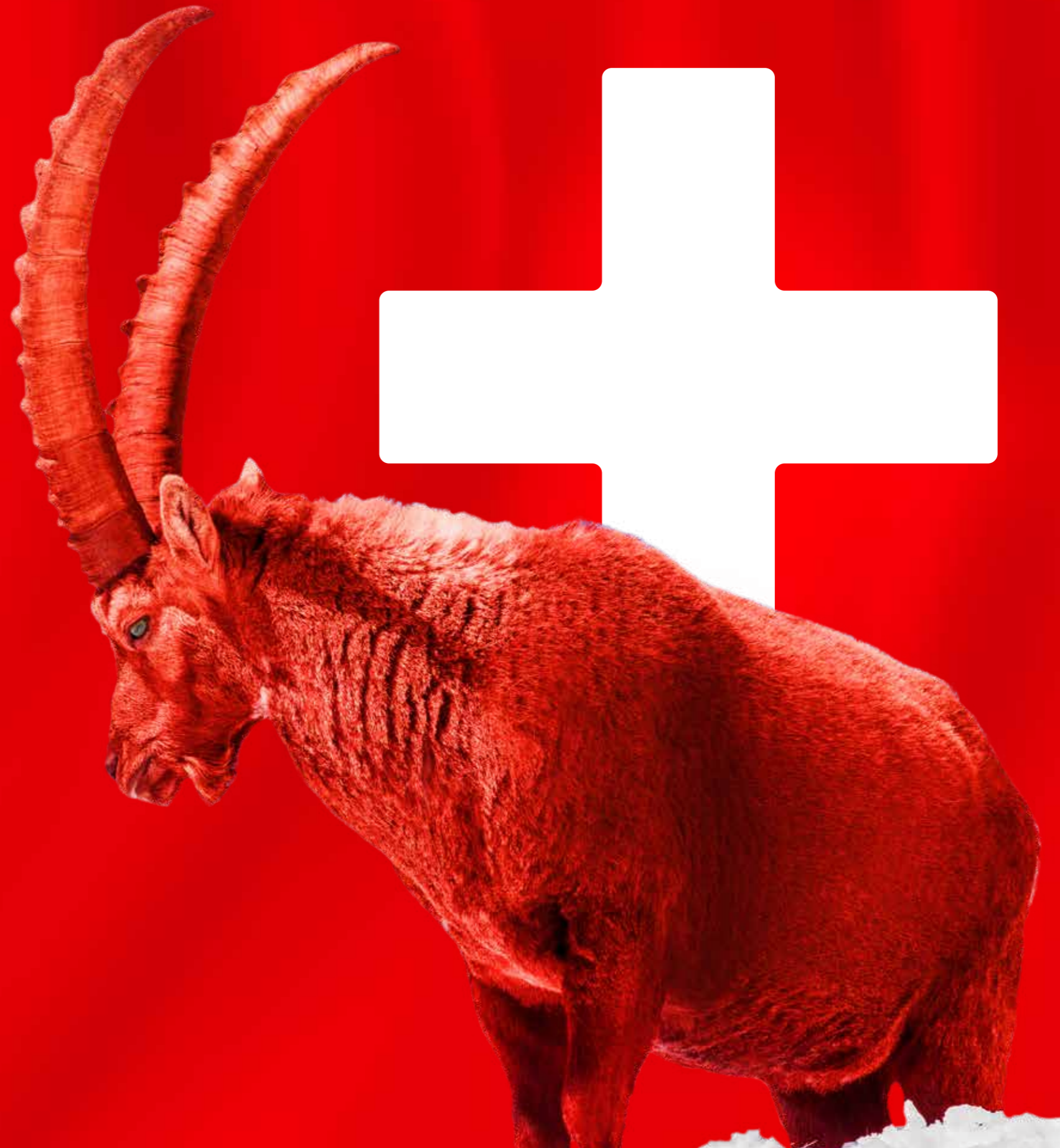
Founded in Switzerland - operating internationally: We have been on the market since 1862 and today are one of the leading manufacturers of high-quality adhesives and sealants as well as encapsulants for almost all industries, OEM manufacturers and retailers.

Our product range comprises (meth)acrylate structural adhesives, epoxy structural adhesives, anaerobic adhesives, cyanoacrylate instant adhesives, silicones, hybrid polymers and encapsulants for a wide range of applications. We also develop application-specific product solutions at our customers' request.

Our customers are leading companies from sectors including:

- + **Lightweight Materials & Composites**
- + **E-Mobility & Electric Motors**
- + **Electronics**
- + **Fluid Technology**
- + **Transportation**
- + **Automotive**
- + **Loudspeakers**
- + **Maintenance, Repair and Overhaul (MRO)**

Resellers who market our products under their own brands have also trusted Kisling's solutions for many years. Highly professional application advice and extensive service are also part of our daily offer as well as the production of our products in-house.



**BONDING +
SEALING +
ENCAPSULATION**

Customer-specific adhesives and sealants without compromise.

Every demanding application has its own specific challenges for the adhesives, sealants and encapsulations used in it. With us you can be assured that your desired parameters are 100% fulfilled, thanks to products that are custom-made to your requirements.

Special solutions by professionals for professionals

These are developed by our specialists in close collaboration with your team – from adhesives development through to the processing chain, because we are more than just a supplier. We are your partner for individual adhesive and sealing solutions. And all of it with trusted and certified Kisling quality.

Innovation meets individuality

We have already developed more than 30 unique and innovative adhesive, sealant and encapsulation products for customers in industries such as IT, electronics, automotive and plumbing.



Environmental protection and safety.

Safety, quality and the judicious use of natural resources are all as central to our corporate philosophy as the Matterhorn is to Switzerland. For decades, therefore, we have developed and marketed many hazard label-free products, while complying with all international quality standards and guidelines.

The Kisling sustainability label

All hazard label-free adhesives and sealants are marked with the Kisling sustainability label. This label stands for highest quality, performance and sustainability throughout all stages of the product lifecycle – from procurement and production through processing to disposal.

Our path to sustainable development

Human – environment – business relationships: it is our responsibility of truly embodying sustainability at all these levels. Whether it is the constant protection and continuing training of our employees, the installation of solar panels on the roof of our headquarter in Wetzikon or by means of our code of compliance – to name just a few examples.



Bonding capabilities to different materials

Category of plastics	Plastic types	Cyanoacrylate	Cyanoacrylate + primer	Anaerobics	Epoxies, 2K	Acrylates/MMAs, NoMix	Acrylates/MMAs, 2K	RTV silicones	Surface pre-treatment, with cleaner 91 90	Surface pre-treatment, with cleaner 91 95	Optional methods, mechanical roughening	Optional methods, physically roughening (plasma, corona, ...)
Thermoplastics	ABS*	...	..	-	..	-	..	..	-	...	-	-
	ASA*	...	..	-	..	-	..	..	-	...	-	-
	LCP	.	.	-	.	.	.	-	...	...	...	...
	PA6	...	-	.	.	.	.	..	...	...	...	-
	PBT	..	...	-	.	-	.	..	...	...	...	...
	PC*	...	-	-	..	-	..	..	-	...	-	-
	PE	-	...	-	-	-	-	-	...	...	-	...
	PEEK	.	.	-	.	.	.	.	...	...	...	...
	PEI	...	-	-	..	.	.	..	...	...	...	...
	PES*	..	-	-	.	-	.	..	-	...	-	...
	PET	...	...	-	.	.	.	..	...	...	-	...
	PI	...	-	-	...	..	..	..	...	...	-	...
	PMMA*	...	-	-	-	.	..	..	-	...	-	-
	POM	-	..	-	-	-	-	-	...	...	-	-
	PP	-	...	-	-	-	-	-	...	...	...	...
	PPO*	...	..	-	.	-	-	..	-	...	-	-
	PS*	..	-	-	.	-	.	..	-	...	-	-
	PTFE	-	..	-	-	-	-	-	...	...	-	-
	PVC-P	...	-	-	-	-	-	.	...	...	-	-
PVC-U	...	...	-	..	-	..	...	-	...	...	-
SAN	...	-	-	.	-	..	...	-	...	-	-
PU*	..	...	-	..	..	-	-	...	...	...	-
Thermosetting plastics	EP	...	-	-	...	..	..	...	...	...	...	-
	MF	..	-	-	..	..	..	..	...	...	...	-
	PF	..	-	-	...	..	..	...	...	...	...	-
	UP	...	-	-	...	..	..	...	...	...	...	-
Elastomers	CR	...	...	-	.	-	-	.	...	...	...	-
	EPDM	..	...	-	.	-	-	-	...	...	...	-
	IR	...	...	-	-	-	-	-	...	...	...	-
	NBR	...	...	-	.	-	..	..	...	...	...	-
	NR	...	...	-	-	-	-	-	...	...	...	-
	PU	..	...	-	-	-	-	-	...	...	...	-
	SBR	...	...	-	-	-	-	-	...	...	...	-
	SI	-	.	-	-	-	-	..	...	...	...	..
TPE	...	...	-	.	.	.	..	...	...	...	..
Other	Cardboard	.	-	-	-	-	-	.	-	-	-	-
	Wood	..	-	-	...	-	..	.	-	-	.	-
	Leather	.	-	-	-	-	-	.	-	-	.	-
	Glass	.	-	.	...	...	..	...	...	...	.	-
	Ceramics	..	-	.	...	...	...	...	...	-	-	-
	Ferrite	..	-	.	...	...	...	...	...	-	-	-
	Metals	..	-	...	...	...	...	...	...	-	...	-

... very well suited .. well suited . moderately suited - not suited

* Plastic tend to be sensitive to stress cracking

Anaerobic Adhesives



TYPICAL APPLICATIONS FOR ANAEROBIC ADHESIVES



SCREW LOCKING

For securing and sealing bolts, studs, nuts, thread inserts and screw plugs against impact, vibration and corrosion.

- + Complete form and material closure
- + No damage to component surfaces
- + Constant friction coefficients



SHAFT-HUB CONNECTION

For fixing cylindrical joints, with high resistance to acids, lyes etc.

- + Complete form and material closure
- + No tension peaks
- + Replaces feather keys, wedges, pins and similar aids



PIPE THREAD SEALS

Gap filling sealants for sealing pipe thread seals against fluids, gases and solvents.

- + For fine and coarse threads
- + Seals against common gases and fluids
- + Prevents corrosion in the seal area



HYDRAULIC SEALS

For sealing pneumatic and hydraulic screw connections up to a diameter of 2 inches

- + Vibration-resistant sealing compound
- + Seals and secures simultaneously (against twisting)
- + Jamming when joining stainless steel elements is ruled out



SURFACE SEALANTS

Suitable as replacement for solid sealants in flange joints on pumps, gearboxes etc.

- + No settling effects
- + Universal application regardless of component geometry
- + Seals against common industrial media

BONDING + SEALING + ENCAPSULATION

Anaerobic Adhesives

	Designation	Colour	Viscosity [mPas]	Breakaway torque [Nm] (As per DIN 54454)	Prevailing torque [Nm]	Compressive shear strength [N/mm ²]	Max. gap [mm]	Max. thread size	Temperature range [°C]	Final strength at 25 °C [h]	Approvals, registrations	Container size Bulk containers on request
4003	Screw lock low-strength	Purple	~1000	>10	>2	>10	0.2	M 36	-55 to +150	10	5	50 g
4050	Screw locking medium-strength	Blue	~150	>15	>7	>8	0.15	M 12	-55 to +150	10	5	5 g, 50 g
4052	Screw locking medium-strength	Blue	~2200 tx	>21	>10	>20	0.25	M 36	-55 to +150	3	1, 2, 3, 4, 5	10 g, 25 g, 50 g, 250 g, 1 kg
4100	Screw lock high-strength	Red	~1500 tx	>20	>35	>20	0.25	M 36	-55 to +150	6	1, 2, 5	50 g, 250 g
4101	Screw lock high-strength	Green	~700	>25	>40	>20	0.15	M 25	-55 to +150	10	1, 2, 5	10 g, 50 g, 250 g
4115	Screw lock heat-resistant and high-strength	Red	~10,000 tx	>23	>23	>25	0.2	M 36	-55 to +200	24	—	50 g, 250 g
4202	Hydraulic seal medium-strength	Brown	~600	>14	>16	>8	0.15	¾"	-55 to +150	6	5	50 g, 250 g
4203	Hydraulic seal low-strength	Violet	~17,000 tx	>2	>1	>1	0.15	¾"	-55 to +150	24	5	50 g, 250 g
4205	Pipe thread sealing with PTFE, low-strength	White	~17500 tx	>5	>4	>5	0.3	3"	-55 to +200	12	1, 2, 3, 5, 6	50 g, 250 g
4207	Pipe thread sealing universal, medium-strength	Yellow	~23,000 tx	>10	>10	>6	0.5	2"	-55 to +150	6	1, 2, 3, 4, 5, 6	50 g, 250 g
4209	Pipe thread seal high-strength	Red	~6500	>25	>35	>20	0.3	2"	-55 to +150	24	1, 2, 5	50 g, 250 g
4212	Pipe thread sealing with PTFE, low-strength	White	~240,000 tx	>4	>1	>2	0.5	3"	-55 to +150	24	1, 2, 3, 5	50 g

APPROVALS:

- 1 NSF – ANSI 61 Drinking Water System Components
- 2 NSF – S2-S6 Non-direct food contact (NSF-Registered Proprietary Substances and Nonfood Compounds)
- 3 DVGW/DIN EN751-1 Use in threaded joints for gas-carrying components. Not permitted in Germany under DVGW-TRGI 2008 for domestic gas installations
- 4 KTW corresponds to the guide formulation of the German Federal Environment Agency (Umweltbundesamt) of 11/02/2016 for use in the drinking water sector.
- 5 Products without hazard pictograms as per (EC) No. 1272/2008 in section 2.2
- 6 WRAS (Water Regulations Advisory Scheme (UK))

	Designation	Colour	Viscosity [mPas]	Breakaway torque [Nm] (as per DIN 54454)	Prevailing torque [Nm]	Compressive shear strength [N/mm ²] (DIN 54452)	Tensile strength [N/mm ²]	Max. gap [mm]	Max. thread size	Temperature range [°C]	Final strength at 25 °C [N]	Approvals, registrations	Container size Bulk containers on request
4252	Surface seal low-strength	Green	~20,000 tx	>6	>3	>4	>2	0.30	–	–55 to +150	24	1, 2, 5	50g, 250g
4253	Surface seal universal, medium-strength	Orange	~34,000 tx	>8	>5	>5	–	0.50	–	–55 to +150	24	1, 2, 5	50g, 250g
4254	Surface seal flexible, medium-strength	Red	~250,000 tx	>18	>10	>18	>14	0.50	–	–55 to +150	72	–	50g, 250g
4280	Surface seal heat-resistant and high-strength	Red	~80,000 tx	–	–	>12	>10	0.50	–	–55 to +200	12	1, 2	50 g
4430	Joint high-strength	Green	~150	>25	>40	>25	–	0.15	M 12	–55 to +150	6	1, 2	50g, 250g
4451	Joint high-strength	Green	~2500	>25	>40	>27	–	0.20	M 36	–55 to +150	4	1, 2	50g, 250g
4453	Joint heat-resistant and high-strength	Green	~550	>25	>40	>27	–	0.15	M 20	–55 to +175	4	1, 2, 3, 4, 6	50g, 250g
4460	Joint heat-resistant and high-strength	Green	~13,000	>25	>25	>25	–	0.20	M 36	–55 to +200	24	4	50g, 250g
2453	UV/Anaerobic joint, heat-resistant and high-strength	Transparent	~550	>25	>40	>27	–	0.15	M 20	–55 to +175	4	–	50 g

Auxiliary Products

	Designation	Colour	Container size Bulk containers on request
4900	Activator (solvent-based)	Turquoise	100 ml, 1000 ml
4910	Activator (monomer-based)	Light blue-green	100 ml, 1000 ml

APPROVALS:

1 NSF – ANSI 61 Drinking Water System Components

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ADHESIVES AND SEALANTS WITHOUT HAZARD LABELS

The use of adhesives and sealants may bear some risks for human health and the environment. Reactive adhesives and sealants often contain substances that can cause skin irritation and allergies. The use of such adhesives therefore requires special health and safety precautions. Employers in all countries are obliged by national legislation to implement health and safety measures. Article 6 of European directive 89/391/EEC sets out these obligations.

Starting the development of label-free adhesives and sealants 20 years ago, Kisling early focused on work safety and sustainability. With its comprehensive range, today Kisling is the leading manufacturer of adhesives with a 'white' safety information data sheet. These products do not need any hazard symbols.



THE KISLING SUSTAINABILITY LABEL

All hazard label-free adhesives and sealants are marked with the Kisling sustainability label. This label stands for highest quality, performance and sustainability throughout all stages of the product lifecycle – from procurement and production through processing to disposal.

TRUSTED ADHESIVES AND SEALANTS FOR TOUGH APPLICATIONS

Kisling's commitment to sustainable products contributes to a healthy balance between functionality, health and safety in your business. Hazard label-free adhesives and sealants by Kisling have been used successfully by our customers for more than two decades. Our more than 20 established products with 'white' datasheets hold up in every comparison of quality and performance.

GOOD REASONS FOR USING ADHESIVES WITH A 'WHITE' SAFETY DATASHEET

- + Enhanced health and safety at work
- + Skin irritations and allergies are minimised
- + Less loss of work due to illness
- + Reduced environmental burden
- + Very wide selection for diverse applications
- + The right solution even for demanding applications

**BONDING +
SEALING +
ENCAPSULATION**

Kisling

MEMBER OF THE WÜRTH  GROUP

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**FASTENERS
& BONDING**

VIBA is distributor of Kisling in the Benelux