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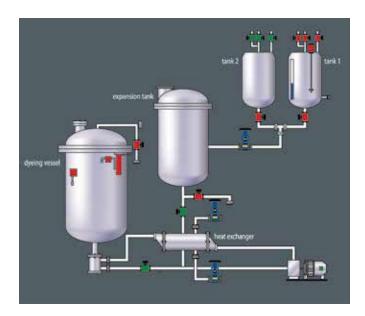




the perfect solution for finishing your sewing threads and embroidery yarns

Silwa® lubricants are highly effective processing agents which are designed for the lubrication of sewing threads and embroidery yarns.

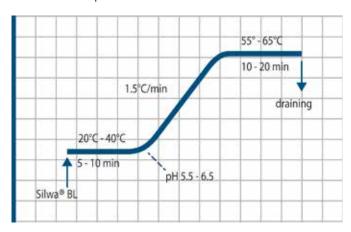
Silwa® high quality lubricants are a very cost effective solution because they provide a wide range of functions.



Benefits:

- starting temperature up to 40°C
- 55°C 65°C clear exhaustion
- very short, low-cost application process
- no special pH buffer necessary
- minimal shade change
- excellent antistatic and friction properties, no stick slip effect
- even lubricant distribution over outside middle inside of the bobbins
- provide excellent sewability, with outstanding heat protection for your thread
- produce high performance sewing thread
- produce high quality embroidery yarn
- easy to handle in production
- conform to Öko-Tex-Standard 100

Exhaustion process SILWA® BL



Convincing advantages for thread manufacturers and garment makers



Silwa® lubricants - are sophisticated formulations for sewing threads and embroidery yarns based on high quality silicone oils, paraffin wax, softeners and special additives. In combination with our in-house developed emulsifier systems and our specialised production method you are assured the latest, state of the art technology.

	SILWA® BL	SILWA® TEX	SILWA® TS	SILWA® TSR	SILWA® D2	SILWA® DRH	SILWA® NSP-CA	SILWA® EM-CV
PRODUCT SPECIFICATIONS								
Chemical characteristics	water based dispersion of silicones, waxes, softeners, additives and emulsifiers with antistatic properties	water based dispersion of high molecular silicones, waxes, softeners, additives and emulsifiers with antistatic properties	water based dispersion of silicones, waxes, softeners, additives and emulsifiers with antistatic properties	water based dispersion of silicones, waxes, softeners, additives and emulsifiers with antistatic properties	dispersion of special paraffin waxes and emulsifier of antistatic character	water based emulsion of silicones, special softeners and emulsifiers with antistatic properties	compound of fatty acid esters and special additives with antistatic properties	water based dispersion of silicones, waxes, softener, additives and emulsifiers with antistatic properties
PRODUCT PROPERTIES								
Appearance	milky liquid	milky liquid	milky liquid	milky liquid	white, milky viscous emulsion	white, milky emulsion	yellow clear liquid	beige milky liquid
Ionic-state	cationic	cationic	cationic	cationic	cationic	cationic	anionic	cationic
Suitable for	all types of sewing threads and embroidery yarns	all types of sewing threads, preferably for PES filament sewing threads	all types of sewing threads and embroidery yarns	all types of sewing threads and embroidery yarns	cotton sewing threads and yarns	synthetic knitting and weaving yarns, preferably for PES and PA yarns	synthetic knitting and weaving yarns, especially for the automotive industry	PES and Rayon embroidery yarns
Benefits	provides excellent friction / stick - slip values and heat protection during sewing easy and cost saving application process GOTS approval	provides extreme heat protection during sewing due to high moleculare silicone oil exhibits excellent and very low friction and stickslip values	provides excellent friciton values and heat protection during sewing	provides very low friction values exhibits good sewability	provides excellent friction and sewability exhibits soft handle	dyebath application ALL-IN-ONE exhibits excellent gliding and antistatic properties	silicone and paraffin free lubricant, i.e. for automotive industry dyebath application ALL-IN-ONE exhibits excellent gliding and antistatic properties GOTS approval	exhibits soft handle provides excellent gliding properties due to low and consistant friction values excellent lustre effect

Simply contact the Graf sales / Technical service team.

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Why not try Graf's lubrication and laboratory testing service!

Your benefits!

- competence and long-term experience in application technology
- intensive research and development in the filed of chemical products
- creative innovations
- responsibility for environmental protection and safety
- competent service for all your needs
- we are close to you and your business



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