

Coats® Signal™ Soft

Coats Signal Soft is a high-tech retro-reflective sewing and embroidery thread for fashion applications in apparel sewing. With a high level of retro-reflectance coupled with good sewability, it delivers enhanced visibility at night or in difficult weather conditions.

The finer ticket size, optimal softness and pliability properties propose usage as decorative embroidery embellishments on garment fabrics.

Coats Signal Soft thread is ideal for high visibility fashion applications. It is not recommended for safety wear where strict norms for reflectivity values are specified.

COATS
signal soft



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WHY CHOOSE SIGNAL SOFT?

- Lubricated finish for needle heat protection and smooth sewing
- The daytime colour is silver and when illuminated by light the reflected colour is white
- Enhanced retro-reflectivity visibility when illuminated by a light source
- Offers decorative sewing and embroidery benefits with finer ticket size and the optimal softness
- STANDARD 100 by OEKO-TEX® CLASS II

MAIN USES

- 3D reflective stitching effect
- Decorative use as top cover thread in flatseam ISO 602 / 605 / 607
- Needle thread in decorative, non-construction lockstitch seams
- Embroidery embellishment



Coats Signal Soft

PRODUCT RANGE

Article Ticket	Ticket	Tex	Length m	Average Strength cN	Elongation % Min - Max	Recommended Needle Size Metric
SEV5040	40	70	500	1090	15 - 25	75 - 80

Needle size recommendations are a guide only and ultimately depend on the sewing application

CHEMICAL PROPERTIES

Mineral acids:	Decomposed by strong mineral acids but resistant to weak acids
Alkalis	Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures
Organic solvents	Generally unaffected
Bleaching	Unaffected, deterioration dependant on conditions
Insects / microorganisms (mildew, rot)	Unaffected
Moisture regain	Approximately 4.5%

THERMAL PROPERTIES

Melting point 250 °C



Without Flash



With Flash



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PRODUCT LIMITATIONS

Coats Signal's Soft reflectivity is being generated by tiny glass beads that are bonded onto the threads' surface. Per definition, glass as a material is much harder than metal. The glass beads will actually lead to higher abrasion of the related metal needles and loopers during use. Due to this effect needles and loopers might have to be replaced sooner. It is important the factory sewing with Coats Signal Soft is correctly instructed in the use of the thread and despite the best bonding technology, the glass beads can occasionally come off the thread during the sewing process. It is therefore very important that the sewing machines are cleaned down with compressed air at regular intervals.

The standard digitized designs are suitable for regular Tex 27 embroidery thread hence stitch density adjustments should be applied to match the quality of Signal Soft thread. The recommended stitch density for Signal Soft thread is 0,55mm - 0,65mm depending on the type of material to be embroidered and the required appearance. Please contact your local Coats office for technical support.

Coats Signal Soft thread should be stored in a cool and dry place with low humidity.

The resistance to any particular chemical will depend on the individual circumstances.

Technical advice should be sought from your nearest Coats unit if the application involves chemical treatment.

RECOMMENDED MACHINE SPEED

Embroidery, optimum 500 rpm - maximum 700 rpm

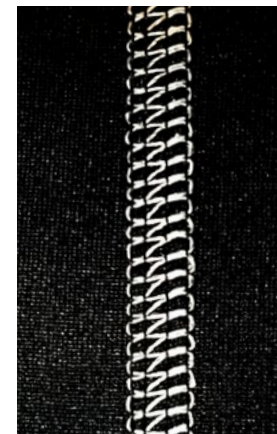
Lockstitch, optimum 550 rpm - maximum 1000 rpm

EFFECT

Normal light



Flash light



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Since conditions and applications vary considerably in the use of a product, the customer and/or user should assure themselves that the product meets end customer requirements and is suitable for the intended end use. Coats accepts no liability for unsuitable or improper use or application of products. Information provided is based on current averages and should be taken only as indicative. Coats accepts no liability for the preciseness and correctness of the information provided. Product information sheets are updated for time to time, please be sure you are referring to the most recent publication. Coats supports customers with advice on individual applications on request; if you have any questions or concerns, please contact us. © Copyright reserved 2022



Coats Signal Soft

EXPERT REAL WORLD SUPPORT

The final cost of any thread also includes hidden costs, fuelled by the methods and tools applied to it. Our experts know exactly how to reduce those costs, save time and increase productivity.



Seamworks

Install our Seamworks software to accurately calculate costs prior to production, putting an end to the risk of over or under ordering materials, and incurring unnecessary extra costs. The Seamworks tool is provided with installation, training and ongoing support included.



One to One Visits

There's no need to come to us, our experts will travel to your site. In person, online or via the phone, our trained consultants deal with the kind of issues any busy factory may face, providing a solution for today and a blueprint for future efficiency.



Training and Presentations

From thread selection to stitch formation, the use of colour to solutions for common production issues, we take the learning gathered through years of hands on experience and present it in the form of high impact seminars, workshops and presentations.



Embroidery Service Centre

Our Embroidery Service Centre makes embroidering a design much easier, increasing productivity at the same time as enhancing the design itself. Email the design and any problematic issues to us and our technicians will email the improved design right back.



Innovation Hub

Collaborate directly with expert R&D technologists at our Innovation Hub to create pioneering and tailored solutions for products ranging from Performance Materials to Apparel and Footwear. Equipped with state-of-the-art technology, we quickly turn ideas into prototype designs ready for manufacturing.

To drive your hidden costs down, talk to Coats. From thread audits in pre-production to the latest technical bulletins, we'll provide support that achieves measurable results. For more information, talk to your Coats representative today or visit www.coats.com/signal-soft

OTHER PRODUCTS IN THE SIGNAL RANGE

To complement the Signal range, we also have a selection of specialist Signal threads. Each of these have additional benefits specific to the end use.

Product Name	Description
Signal	Retro reflective sewing and embroidery thread for fashion applications
Signal HD	Retro reflective embroidery thread for footwear and accessories

Special use Signal products are typically available across a select range of ticket sizes and technical information will in some cases vary from the above table.



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