

COATS  
*signal hd*



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# Coats Signal HD

Coats Signal HD is a retro-reflective thread for footwear embroidery and stitching applications. When illuminated by a light source, it helps to enhance the visibility at night-time or in difficult weather conditions and adds that extra special decorative feature.

## WHY CHOOSE SIGNAL HD ?

- Coats Signal HD is a high-tech thread that combines the tenacity of a nylon filament cover with a retro-reflective core with excellent strength and durability
- Bonding technology that safeguards against ply untwisting
- Retains maximum reflectivity after 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
- Certified to Öko-Tex Standard 100, class II
- Meets Coats restricted substance list

## MAIN USES:

- Signal HD is intended for use in embroidery sewing on footwear materials
- It is also used in standard 301 Stitching for upper sewing



# Coats Signal HD

## PRODUCT RANGE

Global Offer Tex No.	Ticket No. (Nm)	Ply	Average Strength CN	Elongation %
SIV5 105	25	3	1,300	16



## THERMAL PROPERTIES

Melting point 250°C

Special in-line dyed Coats Signal HD available

## 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%

## FASTNESS PROPERTIES

Water Fastness (ISO 105 E01) Grade 4

Rub Fastness (ISO 105 X12) Grade 4 - 5

Artificial Light Fastness (SAE J1885 40 kJ/m<sup>2</sup>) Grade 4

These fastness grades represent minimum performance levels and, in practice, the majority of shades will exceed these levels.



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## 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.

To drive your hidden costs down, talk to Coats. From thread audits in pre-production to the latest technological bulletins, we'll provide support that achieves measurable results.

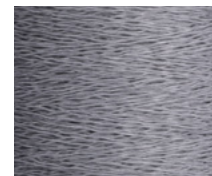
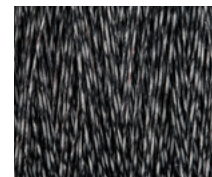
For more information, talk to your Coats representative today or visit [coats.com](http://coats.com)

## OTHER PRODUCTS IN THE SIGNAL RANGE

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

Product Name	Description
Signal	Retro reflective sewing and embroidery thread which, when illuminated by a light source, helps to enhance visibility in the dark.

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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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 2018

