

Coats® Helios™ K

Coats Helios K is a high performance sewing thread made from a special steel core (material number 1.4841) with 10 steel wires wrapped with a para-aramid cover. Coats Helios K has been designed as a sewing thread for a broad range of technical textiles offering a superior level of temperature resistance. The special steel core can withstand temperatures of approximately 400°C under mechanical strain and up to 1000°C without any mechanical strain.

COATS
helios k



STEEL CORE
WITH
PARA-ARAMID

WHY CHOOSE HELIOS K?

- Coats Helios K offers a superior level of temperature resistance. The special steel core can withstand temperatures of approximately 400°C under mechanical strain and up to 1000°C without any mechanical strain
- Coats Helios K provides good sewing performance

MAIN USES

- Welding blankets and curtains
- Fire curtains
- Insulation jackets
- Thermal covers
- Heat and flame protective carpets, mats and tarpaulins
- Firefighter uniforms
- Flame retardant protective clothing



Coats Helios K



PRODUCT RANGE

Tex	Ticket	Dtex/Ply	Strength cN	Elongation % Min - Max
210	13	2100 x 1	6000	6 - 10
90	30	1000 x 1	8890	4 - 6

THERMAL PROPERTIES

The special steel core can withstand temperatures of approximately 400°C under mechanical strain and up to 1000°C without any mechanical strain

CHEMICAL PROPERTIES

Since these data is not available from the steel supplier and it is not relevant for the application. If a customer needs information about chemical properties it needs to be analysed on a case by case basis taking into account individual conditions

ADDITIONAL INFORMATION

Coats Helios sewing threads are suitable for use in heat and fire fighters' protective clothing according to EN ISO 11612, EN ISO 14116 and EN 469.

They are not suitable for use in protective clothing for electricians and welders as the relatively low vertical resistance (< 105_) material cannot guarantee protection from the possibility of electrical shock by contact with live electric conductors



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EXPERT REAL WORLD SUPPORT

The final cost of any product 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 product 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 product 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/helios-k

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 2023

OTHER PRODUCTS IN THE HELIOS RANGE

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

Product Name	Description
Helios C	High performance sewing thread made from a steel core with 8 to 10 steel wires wrapped with a flame retardant cotton cover.
Helios P	The strongest PTFE thread on the market, offering superior chemical, heat and UV-resistance for products exposed to harsh weather conditions.

Special use Helios 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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