

# Coats® Gral SIF™

Silicone contamination can result in surface defects on automotive paint coat surfaces. Coats Gral SIF is a lubricated pre-stabilised high tenacity continuous filament polyester thread that is manufactured under specially controlled 'clean room' conditions to ensure almost complete absence of silicone below spectroscopically low traces of <0.05 ppm (parts per million). Coats Gral SIF is ideal to sew filters used in wet filtration of car paints as well as for workwear worn in this critical area. Coats Gral SIF is tested and approved to ensure that paint-wetting impairment substances are tested below approved spectroscopic trace levels.

COATS  
*gral sif*



LUBRICATED  
'SIL FREE'  
POLYESTER

## WHY CHOOSE GRAL SIF

- Free of contaminating substances like oils, greases, graphite, waxes, paraffin etc. and with silicon traces tested and approved in accordance with <0.05 ppm automotive industry norms.
- Made from pre-stabilised high tenacity continuous filament polyester that is specially lubricated to deliver outstanding sewing performance in the most demanding applications.
- Gral SIF sil free products are different from NS (non-silicone) products available in the market, which may not use silicone for lube finishes but, which may contain >0.05 ppm silicone spectroscopic traces.
- Standard 100 by Oeko-tex® Class I

## MAIN USES:

- Automotive industry
- Paint shop filters
- Paint shop garments and gloves
- Other paint shop products



# Coats Gral SIF

## PRODUCT RANGE

Tex	Ticket	Dtex/ply	Average Strength cN	Elongation % Min - Max
45	65	244 x 2	3277	15 - 25
40	70	244 x 3	4448	15 - 25
60	40	226 x 3	4230	17 - 22

## THERMAL PROPERTIES

Melts at 250 - 260°C, softens at 220 - 240°C

Shrinkage less than 1% @ 150°C

## CHEMICAL PROPERTIES

Mineral acids:	Resistant to most mineral acids
Alkalies:	Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures
Organic solvents:	Generally unaffected, but soluble in some phenolic compounds
Bleaching:	Unaffected
Insects/microorganisms (mildew, rot)	Unaffected
Laundering / dry cleaning:	Unaffected
Moisture regain:	0.4%

## FASTNESS PROPERTIES

Washing Fastness 60° C	(ISO 105-C10C)	Grade 4
Water Fastness	(ISO 105-E01)	Grade 4
Rub Fastness	(ISO 105 X12)	Grade 4
Hypochlorite Fastness	(ISO 105 N01)	Grade 4
Dry Cleaning Fastness	(ISO 105 D01)	Grade 4
Perspiration Fastness	(ISO 105 E04)	Grade 4
Artificial Light Fastness	(ISO 105 B02)	Grade 4



LUBRICATED  
'SIL FREE'  
POLYESTER

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 2021

# Coats Gral SIF

## 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.



### 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.



### 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 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 [coats.com/Gral-SIF](https://coats.com/Gral-SIF)



LUBRICATED  
'SIL FREE'  
POLYESTER

