



# Coats Gral (coarse sizes)

Coats Gral is a lubricated polyester thread made from pre-stabilised high tenacity continuous filament polyester.

The soft finish with superior low friction lubrication reduces the effects of needle heat and abrasion.



## Main Uses:

- Filtration
- Air-bags
- Seat belts
- Automotive interiors
- Suitcases
- Leather footwear
- Outdoor goods and sports equipment
- Lift slings
- Leather goods
- Multineedle quilting
- Mattresses

## Why choose Gral?

- Coats Gral is an excellent sewing thread for all types of leather and has very good abrasion resistance.
- Its higher breaking strength and optimum stretch characteristics produces attractive, fine seams on leather footwear and leather goods.
- The soft finish with superior low friction lubrication reduces the effects of needle heat and abrasion.
- Coats Gral exhibits excellent loop formation, consistent stitch formation and neat seam appearance.
- Certified to Öko-Tex Standard 100.
- Meets Coats restricted substance list.




## Technical Services

Our team of experts deliver innovative solutions globally.



Tex	Ticket	Strength cN	Elongation % Min - Max	Needle Size Metric
40	60	2620	16 - 22	90 - 100
50	50	3260	16 - 22	90 - 100
60	40	4230	17 - 22	100 - 110
80	30	5200	17 - 22	130 - 140
105	25	6340	17 - 22	130 - 140
135	20	8360	18 - 24	140 - 160
150	18	9030	22 - 30	140 - 160
180	15	11400	22 - 30	140 - 160
240	12	14730	20 - 34	140 - 160
270	10	16630	20 - 34	160 - 280
350	8 / 9	19480	20 - 34	160 - 280
400	7	26410	20 - 34	160 - 280
450	6	29740	20 - 34	160 - 280

### Gral special use products

	<p><b>Coats Gral AWF</b> is a continuous filament polyester thread with a PFC-free anti-wick finish. This special finish inhibits the capillary effect, thereby ensuring that no water is taken up by the thread. When the correct sewing tension is used, the transport of water through the needle hole is prevented.</p>
	<p><b>Coats Gral AST</b> - Anti-static is a lubricated polyester thread made from pre-stabilised high tenacity continuous filament polyester in combination with a conductive material, designed for use in applications where electrostatic charge is a problem (e.g. server rooms or places where flammable materials are stored or used).</p>
	<p><b>Coats Gral Protect</b> sewing thread is treated with an innovative process to give the finished thread anti-microbial / anti-fungal properties. The anti-microbial process creates a "zone of inhibition" that prevents the growth of bacteria and pathogens around sewn seams, where microbes like to harbour, leaving seam crevices clean and fresh.</p>

Please refer to our information hub; footwear expertise section for further guidance:

<http://www.coatsindustrial.com/en/information-hub/footwear-expertise>



Since conditions and applications vary considerably in the use of thread, the thread user should assure herself or himself by preliminarily testing that the thread is suitable for the end use intended. Technical information listed above is based on current averages and should be taken only as indicative.

Despite utmost care and attention no liability whatsoever shall be assumed for the preciseness and correctness of the information provided. Product information sheets are updated from time to time, please be sure you are referring to the most recent publication.

