

COATS  
armoren X13



CUT PROTECT YARNS

# Coats® Armoren™ X13

UNIQUE CORE SPINNING PROTECTION. RE-INVENTED.

Coats Armoren X13 is a revolutionary engineered yarn that incorporates the latest fibre and spinning technology. Its uniquely reinforced core delivers superior performance, protection, and comfort over widely recognised medium duty competitive para-aramid products, with excellent cut resistance compared even to products that are reinforced with steel cores.

## WHY CHOOSE ARMOREN X13?

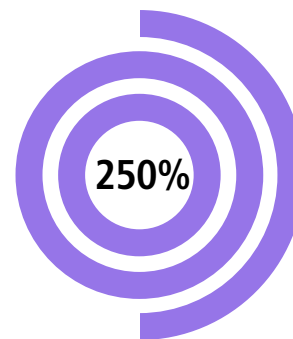
- Superior cut resistance (A4/D) vs spun para-aramid and para-steel.
- Thermal resistance >250°C EN 407 Contact heat level 2.
- High durability. Withstands repeated laundering.
- Optimum comfort, stays cool.
- Black fibre improves runnability and hides stains.
- Better value for money vs para-steel because no steel core is used.

## MAIN USES

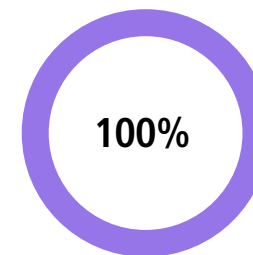
Gloves and sleeves suited for following industries:

- Metal fabrication
- Automotive and heavy machinery assembly
- Glass processing
- Press and injection moulding

## ARMOREN X13 COMPARED TO PARA-ARAMID



3.5x higher  
cut resistance



2x higher  
abrasion resistance

BEST SUITED TO REPLACE PARA-ARAMID OR P-ARAMID STEEL IN MEDIUM DUTY GLOVES



MD  
Medium Duty

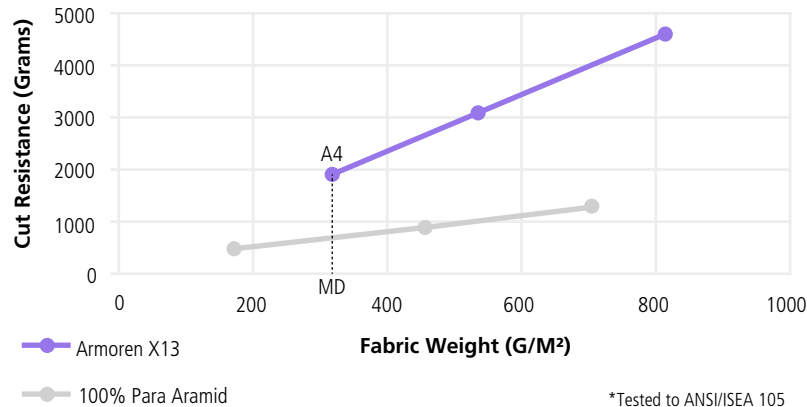


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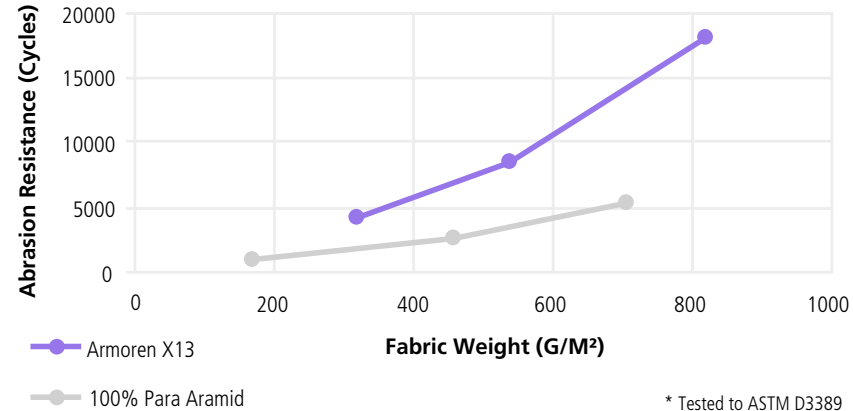
## CUT RESISTANCE

Armoren X13 vs. 100% Para Aramid



## ABRASION RESISTANCE

Armoren X13 vs. 100% Para Aramid



Gauge: Fabric (gsm) - 18 gg: <300, 15 gg: 200-450, 13 gg: 300-600, 10 gg: 450-700, 7 gg: >700

Cut Resistance ANSI (gms) - A2: 500, A3: 1000, A4: 1500, A5: 2200, A6: 3000, A7: 4000, A8: 5000, A9: 6000

Tests performed on spun yarn knitted gloves of equal weight and construction. Performance levels may vary depending on fabric construction and test procedures. Example: Medium duty X13 gloves with fabric weight 300-400 gsm will have A4 cut level.

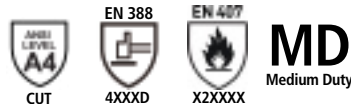
## PRODUCT RANGE

WHAT SETS ARMOREN X13 APART?	Cut Resistance ANSI (EN)		
Medium duty glove of similar fabric weight	If para-a used	If p-aramid steel used	Armoren X13 (no steel)
	A2 (B)	A4 (D)	A4 (D)

Product	Glove Type	Gauge	Weight Denier	Finished Count Ne	Strength KG
14/1 X13	Medium Duty	13 - 15 gg	435	11.7	1.6
20/2 X13	Medium Duty	13 gg	607	8.8	3.2
14/2 X13	Heavy Duty	7 - 10 gg	834	6.9	3.9
10/2 X13	Heavy Duty	7 gg	1138	4.7	6.1

NOTE:

- Contact Heat resistance (EN 407: 2004) Rating 2 (250 °C) with Armoren X13 normal wrap blend of para-aramid and other soft fibres.
- For higher thermal performance, other fibre options like 100% para-aramid, vectran and other materials available.
- For multi-risk hazards like electric arc flash or extreme contract heat resistance, Coats offers new innovation solutions.
- When higher yarn weight is used for heavy duty gloves (7 - 10 gg), ANSI cut resistance of Armoren X13 increases beyond A4 (D).



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Comfort Category	Fabric Weight	Cut Level ANSI - (EN388)	A1 - (A)	A2 - (B)	A3 - (C)	A4 - (D)	A5 - (E)	A6 - (F)	A7 - (F)	A8 - (F)	A9 - (F)
Ultra-light weight	150-300 gsm	18gg	Ultralight					Ultracut		Ultracut Gold	
		15gg	X14	X13							
Medium Duty	300-700 gsm	13gg	APS								
		10gg									
Heavy Duty	> 700 gsm	7gg									

APS
X14
X13
Ultralight
Ultracut
Ultracut Gold

**Extensions:** FLX  
Orbit  
Protect+

**\*features can be combined**

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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 2021



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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.



### 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 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

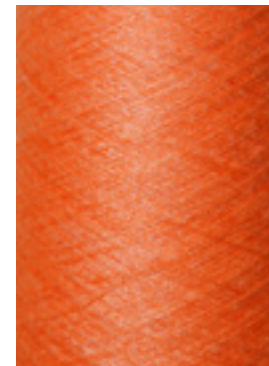
Collaborate directly with expert R&D technologists at our Innovation Hub to create pioneering and tailored solutions for products ranging from Performance Materials to Apparel and Footwear. Equipped with state-of-the-art technology, we quickly turn ideas into prototype designs ready for manufacturing.

## ENGINEERED YARN EXPERTISE THROUGH MERGERS & ACQUISITIONS

Our unique combination of innovative technology and technical expertise has grown through acquisitions, bringing together the combined expertise and heritage of the renowned Coats, Patrick Yarns and Pharr HP brands. We understand the challenges faced, which is why we continue to push boundaries, seek new possibilities and extend our global footprint in search of new solutions in high performance spun.

## SUSTAINABILITY

Coats is a member company of FTSE4GOOD Index, a group of global companies recognized for its integrated Sustainability strategy that centers around five pillars of water conservation, energy footprint, effluent and emission control, social responsibility, and living sustainably by launching eco-friendly products.



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

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