

COATS
armoren X14



CUT PROTECT YARNS

Coats® Armoren™ X14

GREAT VALUE. COOL TOUCH. OPTIMUM PERFORMANCE.

Coats Armoren X14 uses an innovative material blend that delivers great value combined with optimum performance compared to HPPE and HPPE glass yarns in the market. Armoren X14 yarns are engineered to provide superb all-day comfort, cool touch and flexibility in medium duty safety protection applications.

WHY CHOOSE ARMOREN X14?

- Great value for money compared to filament HPPE, HPPE filler, and HPPE glass products (HPPE = Ultra-high Molecular Weight PolyEthylene).
- Optimum performance with cut resistance (A3/C) comparable to filament HPPE and HPPE glass.
- Unique core spinning soft wrap technology completely covers core filament.
- Special fibre blend keeps fabric appearance fresh and comfortable.
- Very good lifespan with laundering cycles.
- Cooling technology that wicks moisture and reduces body heat.

MAIN USES

Gloves and sleeves suited for following industries:

- Metal work of irregular shapes
- Adjusting parts and screws systems
- Applying finish to materials



MD
Medium Duty

ARMOREN X14 COMPARED TO HPPE

2x HIGHER cut resistance

2x HIGHER abrasion resistance

BEST VALUE TO REPLACE HPPE OR HPPE GLASS IN MEDIUM DUTY GLOVES



PERFORMANCE YARNS

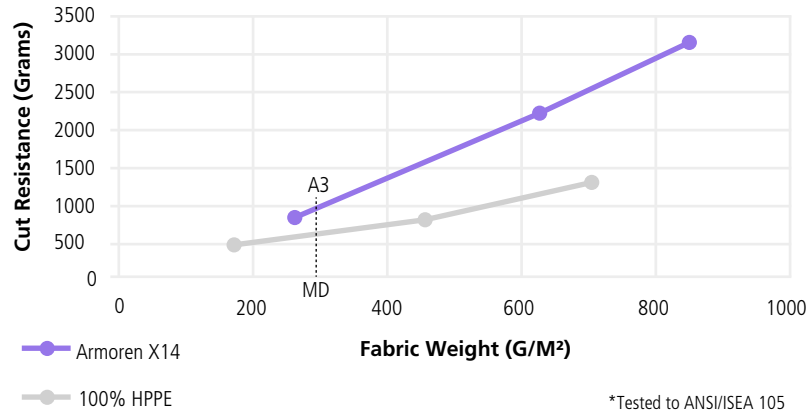
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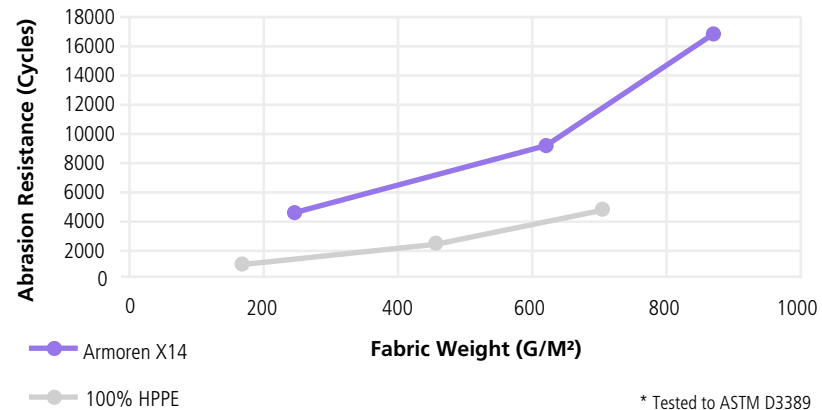
CUT RESISTANCE

Armoren X14 vs. 100% HPPE



ABRASION RESISTANCE

Armoren X14 vs. 100% HPPE



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 Armoren X14 gloves with fabric weight 300-400 gsm will have A3 cut level.

PRODUCT RANGE

WHAT SETS ARMOREN X14 APART?	Cut Resistance ANSI (EN)		
Medium duty glove of similar fabric weight	If para-a used A2 (B)	If HPPE-glass used A3 (C)	Armoren X14 (no steel) A3 (C)

Product	Glove Type	Gauge	Cut Resistance ANSI	Net Denier	Finished Count Ne	Strength KG
14/1 & 15/1 X14	Medium Duty	13 gg	A3	435	11.7	1.6
20/2 X14	Medium Duty	13 gg	A3	607	8.8	3.2
16/2 X14	Medium Duty	10 gg	A3	750	7	4

NOTE:

1. Armoren X14 normal wrap: Blend of HPPE, soft polyester, and other fibers. Other options like moisture proof comfort fibres available.
2. Armoren X14 cut resistance is better than spun para aramid product and can also be used to replace para aramid if contact heat Level 2 is not required.
3. Armoren X14 thermal performance (Contact Heat EN Level 1 100°C) is superior to standard HPPE fibre. For higher contact heat performance, Armoren X13 needs to be used.
4. Cut resistance above assumes 2 ends used per knitting needle of each yarn to achieve target fabric weight.



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Comfort Category	Fabric Weight	Cut Level ANSI - (EN388)	Gauge								
			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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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

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