

# COATS ARMOREN

AT THE CUTTING EDGE OF INNOVATION.  
GAME-CHANGING SOLUTIONS FOR HAND SAFETY.



CONNECTING. PIONEERING. TRUSTED.





**Armoren** cut protection yarns come to you from Coats which has a pioneering record of engineered yarn expertise and innovation.

## ULTRALIGHT

Ultimate dexterity and laser-fine protection.

## ULTRACUT

The power of extreme cut protection.

## GLOBAL & PIONEERING

New materials and disruptive technologies.

**COATS**  
*armoren*



CUT PROTECT  
YARNS

# Innovation at Coats

COATS Armoren uses a pioneering J Spun engineered yarn technology that extends the frontiers of safety awareness in cut protection. New generation stretch fibres and high quality of core yarn coverage creates laser-fine gloves that are comfortable, and have ultimate tactile dexterity. The best in class, proprietary helical J Spun core construction provides the power of extreme cut resistance even at fine knitting gauges.

The Coats Armoren product range of cut protect yarns is engineered for Ultralight comfort and Ultracut protection in gloves, and offers game-changing solutions to the hand safety industry.

Coats Armoren can also be designed to protect against multi-risk hazards like electric arc flash, extreme contact heat, microbial infection, molten splash, chemical exposure, clean room electrostatic, and other dangers. It is brought to you by Coats, which is a global company with the engineering expertise and the innovation capability to meet increasingly stringent industry trends of safety and sustainability.

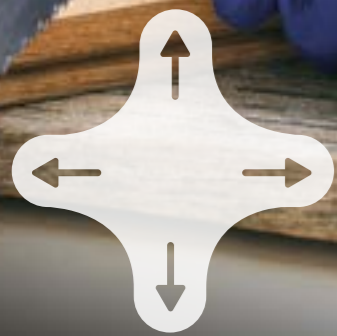


## WHAT INNOVATIVE SOLUTIONS DOES COATS ARMOREN OFFER FOR SAFETY GLOVES?



### COOL COMFORT

The choice of soft fibre blends and best in class core yarn coverage technique produces fabrics with cool touch against the skin and velvet-like gentle feel. The comfort of stylish Ultralight gloves implies higher safety and security because you never feel the need to take safety gloves off during work.



### FEEL THE STRETCH

Use of stretch component and soft yarns for great elastic recovery and ultra-flex grip.

### DEXTERITY

Fine count Coats yarns enable laser thin fabrics to be knit on fine gauges like 18 gg for agile freedom of movement, tactile nimbleness, and excellent fingertip sensitivity.



### EXTREME CUT RESISTANCE

The power of Armoren J Spun technology delivers extremely high cut resistance that goes above and beyond. The J Spun helical core and cover construction increases cut resistance by 100-250% (A2 to A3-A4) in standard range and achieves high Ultracut levels of A5 to A9 even at fine knitting gauges.



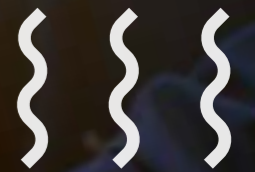
## MULTI-RISK AND ARC FLASH PROTECTION

To protect against electric arc flash hazards, Coats has the technology to develop new blends that stop heat propagation and prevents char decomposition to meet F2675M-13 Hazard Category Level 2 (8 cal/cm<sup>2</sup>). Solutions are available even for HRC Level 3 (25 cal/cm<sup>2</sup>) or higher.



### HIGH CONTACT HEAT RESISTANCE

Standard Armoren aramid blends withstand >250°C flame heat EN 407 contact heat Level 2. To achieve even higher contact heat level > 350°C (Level 3), Coats can develop, on special request, innovative fabric-based solutions that meet special end user design needs.







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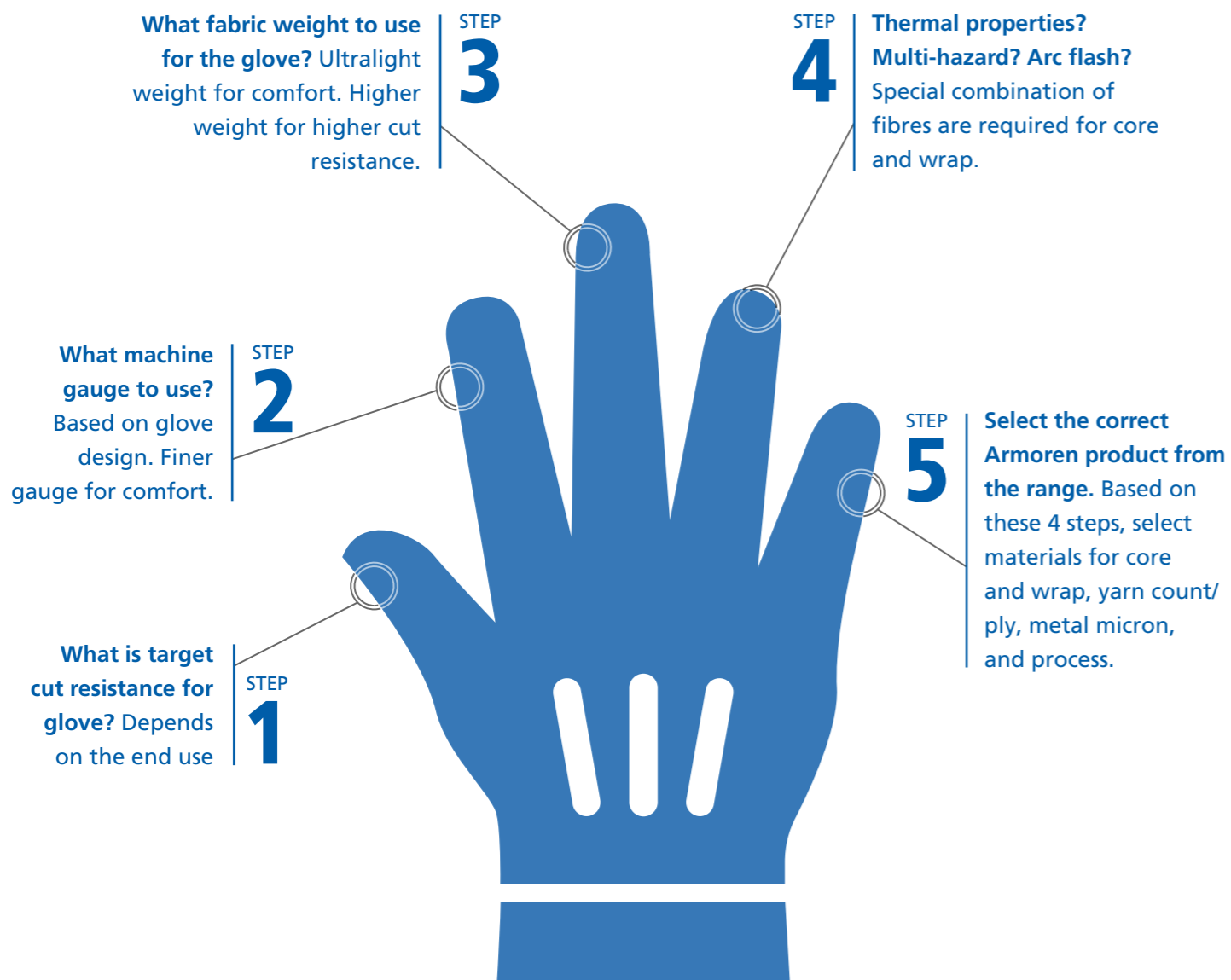
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## COATS ARMOREN: COMPLETE PRODUCT RANGE

Ultralight & Ultracut: fastest growing sectors in Hand Safety and require innovative engineered yarns

Armoren Family of Products	Cut EN 388 Cut ANSI	B A2	C A3	D A4	E A5	F A6	A7	A8	A9
Comfort Category	Fabric Weight	Machine Gauge	Medium Cut	Standard Cut			High Cut		
Ultralight weight	150-300	18 gg	Armoren Ultralight			Armoren Gold			
Medium Duty	300-700	13-15 gg	Armoren APS	Armoren X14	Armoren X13	Armoren Ultracut			
Heavy Duty	>700 gsm	7-10 gg							

## 5 STEPS TO SELECT THE APPROPRIATE ARMOREN YARN FOR YOUR SAFETY PRODUCT



## HOW TO DECIDE WHICH COATS ARMOREN PRODUCT TO USE FOR WHAT APPLICATION?

- The gold standard of cut protection. Extreme high cut for fine gauge knitting
- For ultimate dexterity and laser-fine protection in 18 gg ultralight-weight gloves
- The power of extreme cut protection. High cut A5-A9 in medium duty gloves
- Best suited to replace spun para-aramid or para-steel in medium duty gloves
- Great value to replace HPPE or HPPE Glass in medium duty gloves
- General purpose yarns made with spun para-aramid and HPPE fibres

*Note: Please refer to separate product sheets of each sub-brand of Armoren family in order to get detailed specifications of each engineered yarn. Each sub-brand uses uniquely special yarn spinning techniques and different combination of fibres and new generation materials. Selection of type of core, metal micron, wrap blend content %, etc will depend on the specific functional needs of the type of glove being designed. Multiple counts and ply constructions are available within each sub-brand to meet the needs of the full range of gauge-cut resistance product quadrants. Use Armoren Protect+ for anti-microbial and Armoren Orbit for vortex spun applications.*



## COATS ARMOREN: MULTI-RISK PROTECTION

Coats is a global innovation leader pioneering the textile industry. It has developed disruptive technology platforms like J Spun that meets safety industry's challenges. It has invested in advanced research of next generation materials. Its Innovation Hubs can design special fibre/ yarn blends and fabric solutions that provide Multi-Risk Protection and other functional attributes on as-needed basis to meet emerging and future industry needs:

- Electric arc flash resistance to meet F2675M-13 HRC level 2 (8 cal/cm<sup>2</sup>), HRC Level 3 (25 cal/cm<sup>2</sup>) and above
- High contact heat properties at 350°C EN 407 Level 3
- Anti-microbial and anti-bacterial protection under Armoren Protect+ brand
- Molten Metal Splash hazard protection
- Hypodermic needle resistance under ANSI 105 (150 Newtons)
- High mechanical impact ANSI ISEA 138
- Electrostatic (EN 1151/ANSI 16350), silicone-free, modular clean room ambience
- FDA food handling requirements 2002/72 EC
- Chemical exposure; Oekotex, Reach certifications



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