HONEYWELL CORESHIELD™ GLOVES PRODUCT OVERVIEW



WHAT ARE THE CORESHIELD GLOVES?



Range of cut-resistant mechanical gloves designed by Honeywell, having specific offering for light to heavy duty work.





A range of 22 mechanical gloves, with cut level from A1/A to A9/F. Nitrile micro-foam and flat coating. Gauges range from 18 to 10 and global offering.

Making tough choices into easy decisions.

WHY IS IT DIFFERENT?

- Identify cut level by color of cut level
- Thumb reinforcement matching cut level color
- Cut levels marked on back of hand
- Product number on back of hand
- Left hand marked with Honeywell and Right hand marked Coreshield
- Sizes identified by overlocking color



PAIN POINTS AND CHALLENGES



Richard, H&S Manager

Help me understand the different cut levels from new standards for cut protection?

Education of cut risks and standards

- USA: ANSI—105-2016
- Europe: EN388:2016 ISO 13997

Which cut level do I need for my application?

Provide a simple selection of gloves to cater to my work environment





Oliver, Purchaser

I need a complete glove range offering with a high level of comfort, dexterity and technology

Innovation and comfort features: Thinner gloves, with higher cut levels and great comfort

David, Worker

I need to improve productivity and reduce injuries

Durable, lightweight, breathable, gloves with superior comfort, grip to reduce hand fatigue and touch screen capability so workers do not have to remove their gloves.

Needs to educate, nurture and support our target to get the best solution.

TARGET INDUSTRIES





APPLICATION SEGMENT (light to heavy-duty work):

High cut protection

ANSI A1-A9 selection of dipped products

High level of dexterity

• Lightweight knit and coatings, improve tactile sensitivity

Ease of use

Check & Go safety management, back of hand color-coded ANSI rating

Enhanced nitrile formulation

• Nitrile with improved grip formulation to help reduce hand fatigue

EXAMPLES

- Small oily parts assembly
- Gripping tools
- Working with sharp edges
- Tight spaces for hands
- Inspection need light, white gloves

CORESHIELD VIDEO

oreshield

138

25-09130

CORESHIELD TECHNOLOGY

Choosing the right cut-protective glove can be tough. With Honeywell CoreShield, there is no excuse for getting it wrong. Why? We have made cut protection simple.

Honeywell

PROTECTION MADE SIMPLE CORESHIELD TECHNOLOGY

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A1–A9 Cut Protection

- Full line of cut-resistant dipped gloves in levels A1-A9
- Lightweight knits and coatings, for better comfort and tactile sensitivity
- Silicone free material and construction



Durable Grip Coatings

- Specially formulated, nitrile coatings provides added durability
- ANSI level 6 abrasion ≥ 20,000 cycles
- Thumb reinforcements on the full line, for highwear area



Breathability

- 360° breathability for better wearer comfort
- Microfoam nitrile coatings release moisture to allow gloves to feel cooler





CoreShield Yarn

- Skin friendly and comfortable material to shield the wearer from the cut-resistant yarn
- Produces more durable yarn for longer glove life
- Washable, without
 degrading yarn structure
 and protection

PROTECTION MADE SIMPLE

CORESHIELD TECHNOLOGY

- Check & Go! Identify cut level by color of the highlights on the glove
- Thumb reinforcement matching cut level color
- ANSI and ISO Cut levels marked on back of hand
- Product number on back of hand
- Left hand marked with Honeywell and right hand marked Coreshield
- Sizes identified by overlocking thread color for easy sorting



CORESHIELD YARN TECHNOLOGY



Strengthened Engineering Yarn structure

SHIELD MATERIAL OVERVIEW

High performance fiber material to provide cut resistance

Material	Cut level	Advantages	Disadvantages
High-Performance Polyethylene HPPE	A2, A3, A4, A5, A6, A7, A8, A9	 Good mechanical and cut resistance Lightweight Cool and comfortable 	- Low heat tolerance
Kevlar® aramid	A8, A9	- Good mechanical and cut resistance - Lightweight - Inherent heat properties	- Low resistance to UV rays and moisture
Alloy Metal	A6, A7	- Excellent cut resistance	- Heavyweight - Poor flexibility - Heat and electricity conductor
Basalt Inorganic fiber	A3, A4, A6	 Strong cut resistance Inherent heat properties Less breakage in washing 	- Skin irritation may occur after the fiber is cracked
Stainless steel Metal	A4	- Great cut resistance	- Heavyweight - Poor flexibility - Heat and electricity conductor

SHIELD MATERIAL OVERVIEW

High performance fiber material to provide cut resistance

Material	Cut level	Advantages	Disadvantages
Nylon (oeko-tex 100 certificated) Synthetic fiber	A1, A2, A8	 Soft and comfortable Good resistance to abrasion and fatigue (Better than polyester) Many color types Skin friendly 	 Low resistance to heat Low mechanical and cut resistance
Polyester (oeko-tex 100 certificated) Synthetic fiber	A3, A4, A6	 Soft and comfortable Good Resistance to abrasion and fatigue Many color types Skin friendly 	 Low resistance to heat Low mechanical and cut resistance
Modal (oeko-tex 100 certificated) Regenerated cellulose fiber	A4, A5	 Soft and comfortable Absorb sweat and moisture to decrease sweaty feeling. 	- Low mechanical and cut resistance
Spandex (oeko-tex 100 certificated) Additive fiber	A1, A2, A3, A4, A5, A6, A7, A8, A9	High degree of elasticity and comfortResistant to abrasionSkin friendly	- Loses elastic properties with heat and wear
Elastane Additive fiber	A1, A2, A3, A4, A5, A6, A7, A8, A9	High degree of elasticity and comfortResistant to abrasion	 Loses elastic properties with heat and wear

GRIP COATING TECHNOLOGY

ILLUSTRATION OF THREE TYPICAL GRIPPING MODES OF A WORKPIECE

Analysis of force to grip an object in different ways*





Holding /

Grasping a

work piece

Gripping from side



Lifting from below

*Different gripping patterns were studied to find the right coating for better grip.

ELASTIC COATING TO HAVE BETTER GRIP



<10kgf Able to hold 10gf ~ 14kgf Hard to hold > 14kgf Fail to hold

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COATING TECHNOLOGY ILLUSTRATION

CORESHIELD COATED WITH THIN NITRILE



CORESHIELD COATED WITH MICROFOAM



CORESHIELD GLOVES PERFORMANCES AFTER 5 WASH CYCLES

Overview of dimension change after 5 wash cycles

5 WASH CYCLES!

Item	A1-15gg	A2-13gg	A3-13gg	A5-13gg	A1-18gg	A2-18gg	
Glove SKUs	HON-A1-15GG	HON-A2-13GG	HON-A3-13GG	HON-A5-13GG	HON-A1-18GG	HON-A2-180	G
Size dimension	6'	6'	7'	6'	6'	6'	
Length of glove before/cm	22.9	22.8	23.5	22.9	22.7	22.5	
Length of glove after/cm	22.4	22.1	23	22.5	22.6	22	ALONGER
Size Stability	ОК	OK	ОК	ОК	ОК	ОК	LIFE OF THE

GLOVES!



	13G A3	Cut	Abrasion
THE SAME	Before	1376/A3	>20,000 cycles
PERFORMANCE	After	1333/A3	>20,000 cycles
AFTER			



After 5 wash cycles

CORESHIELD FEATURES AND BENEFITS

Best Grip

Special designed Microfoam coating, provides the best oil as well as dry grip performance

New family design

More simple and clear cut level indicator with both EN and ANSI

Consistent family design and color coding enhance Honeywell glove brand globally.

Thumb reinforcement

Thumb reinforcement was introduced into CoreShield family to further enhance product longevity.

No Glass Fiber

Replace Glass fiber with basalt with lower skin allergy risk and better product stability.

Touchscreen capability

for resistive screen machines

Users can operate touch panels of industrial machines without taking their gloves off.

Silicone Free

Manufacturing

NO Silicone added anywhere in manufacturing, making the glove safe for painting applications

Wrist longer

Ratio of wrist to palm kept higher to reduce fatigue

360° Breathability

Microfoam coating with well-design open cell structure, providing the best breathability in competitors.



Washable

All products were tested with no change in performance, dimensions and color fasteners over 5 times of laundry = less replacement and low



of laundry = less replacement and lower cost to site.

Skin Friendly

All products passed the Oeko-tex 100 certification.



2X Durability Due to Special Abrasion en

Due to Special Abrasion enhancement technology, the coating abrasion was improved over 2X.

Lightest product

Due to patented microfoam technology and new designed manufacture process, offering the lightest weight product among competitors.



CERTIFICATIONS

EN 388:2016







EN 388:2016

OEKO-TEX ® CONFIDENCE IN TEXTILES STANDARD 100 00000000 Institute Tested for harmful substances. www.oeko-tex.com/standard100

Honeywell

SIZE: 9/L

CoreShield[™] SKU: 2421365-09 Honeywell Safety Products Europe Immeuble Edison ZI-Paris Nord II, 33 Rue des Vanesses, 95 958 Roissy CDG CEDEX FRANCE Patent: www.hsmpats.com LOT NO.:WW/YYYY MADE IN CHINA



CORESHIELD OFFERING (SMOOTH NITRILE COATING)

SKU	PRODUCT NAME & DESCRIPTION	CUT LEVEL & COLOR CODING	EN388:2016 PERFORMANCES	ANSI/ISEA 105:2016 PERFORMANCES		EN407
				CUT	ABRASION	MANCES
21-1818B	CoreShield, 18 gauge nylon black liner, nitrile super thin black coating, A1/A	A1 A	4X21A	A1	5	
22-7913B	CoreShield, 13 gauge HPPE black liner, smooth nitrile black coating, A2/B	A2 B	4X42B	A2	6	
23-0913B	CoreShield, 13 gauge HPPE/basalt black liner, smooth nitrile black coating, A3/C	A3 C	4X43C	A3	6	X1XXXX
24-0913B	CoreShield, 13 gauge, HPPE/basalt black liner, smooth nitrile black coating, A4/D	A4 D	4X44D	Α4	6	
25-0913B	CoreShield, 13 gauge HPPE/stainless steel black liner, smooth nitrile black coating, A5/E	A5 E	4X42E	A5	6	
26-0913B	CoreShield, 13 gauge HPPE/alloy/basalt black liner, smooth nitrile black coating, A6/F	A6 F	4X44F	A 6	6	
28-0910B	CoreShield, 10 gauge HPPE/Kevlar/alloy black liner, smooth nitrile black coating, A8/F	A8 F	4X44F	A 8	6	
29-0910B	CoreShield, 10 gauge HPPE/Kevlar/alloy black liner, smooth nitrile black coating, A9/F	A9 F	4X44F	A 9	6	

CORESHIELD OFFERING (MICRO-FOAM COATING)

SKU	PRODUCT NAME & DESCRIPTION	CUT LEVEL & COLOR	EN388:2016	ANSI/ISEA 105:2016 PERFORMANCES		EN407
		CODING	PERFORMANCES	CUT	ABRASION	MANCES
21-1515B	CoreShield, 15 gauge nylon black liner, nitrile micro-foam black coating, A1/A	A1 A	4X31A	A1	6	
21-1518B	CoreShield, 18 gauge nylon black liner, nitrile micro-foam black coating, A1/A	A1 A	4X21A	A1	6	
22-7513B	CoreShield, 13 gauge HPPE black liner, nitrile micro-foam black coating, A2/B	A2 B	4X42B	A 2	6	
22-7513W	CoreShield, 13 gauge HPPE white liner, nitrile micro-foam grey coating, A2/B	A2 B	4X42B	A 2	6	
22-7518B	CoreShield, 18 gauge HPPE grey liner, nitrile micro-foam black coating, A2/B	A2 B	4X31B	A2	6	
23-0513B	CoreShield, 13 gauge HPPE/basalt black liner, nitrile micro-foam black coating, A3/C	A3 C	4X43C	Α3	6	X1XXXX
23-7518B	CoreShield, 18 gauge HPPE/basalt black liner, nitrile micro-foam black coating A3/C	A3 C	4X42C	A 3	6	X1XXXX
24-0513B	CoreShield, 13 gauge HPPE/basalt black liner, nitrile micro-foam black coating, A4/D	A4 D	4X43D	Δ4	6	
24-0513W	CoreShield, 13 gauge HPPE/basalt white liner, nitrile micro-foam grey coating, A4/D	A4 D	4X43D	Δ4	6	
24-9518B	CoreShield, 18 gauge, HPPE/steel black liner, nitrile micro-foam black coating, A4/D	A4 D	4X31D	Δ4	6	
25-0513B	CoreShield, 13 gauge HPPE/stainless steel black liner, nitrile micro-foam black coating, A5/E	A5 E	4X42E	A 5	6	
26-0513W	CoreShield, 13 gauge HPPE/alloy/basalt white liner, nitrile micro-foam grey coating, A6/F	A6 F	4X44F	A 6	6	
26-0513B	CoreShield, 13 gauge HPPE/alloy/basalt black liner, nitrile micro-foam black coating, A6/F	A6 F	4X44F	A 6	6	
27-0513B	CoreShield, 13 gauge HPPE/alloy black liner, nitrile micro-foam coating, A7/F	A7 F	4X44F	Δ7	6	

THE FUTURE IS WHAT WE MAKE IT

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For more information: www.sps.honeywell.com