KYORENE®

THE GRAPHENE FIBER

PRODUCT CATALOGUE

Table of contents

WHAT IS GRAPHENE?

Graphene is an allotrope of carbon which is a two-dimensional structure in a honeycomb lattice construction that is one-atom thick. When one million layers of graphene are stacked on top of each other they form graphite, a mineral consisting of carbon which is the most abundant material on earth.

Graphene is a million times thinner than a sheet of paper, 200 times stronger than steel, harder than diamond, flexible, transparent, conductive, and inherently bacteriostatic, regulating temperature, and neutralizing odors. These unique properties make graphene the ideal material for creating safe and comfortable maintenance gloves, suitable for industries such as automotive, aerospace, warehousing, and construction.

HOW DO WE USE IT?

We start with raw graphite, which we separate into appropriate layers, transforming it into graphene. We then liquefy the graphene, transforming it into graphene oxide (GO). We then covalently bond the graphene oxide (GO) to the host yarns. This bond ensures that the graphene remains integrated into the yarn, preventing it from flaking, peeling, or falling off. By integrating graphene into the yarns that make up our gloves, we enhance their properties with the remarkable benefits of graphene.

The Kyorene fiber is not only present in our protective gloves, but also being used in diverse products such as sportswear, denim, jackets, work wear, socks and underwear. Kyorene can even be found in diverse applications such as water filtration, mattress thicking, towels, bedding and even toothbrush bristles.

VERIFIED GRAPHENE®
PRODUCER
THE GRAPHENE COUNCIL

The Graphene Council is the largest community in the world for graphene researchers, academics, producers, developers, investors, nanotechnologists, regulatory agencies, research institutes, material science specialists and even the public. The Graphene Council serves as the leading association on all things graphene and supports several organizations whose purpose is to advance graphene and other leading 2D materials.

The Graphene Council administers the Verified Graphene Producer program; the only credential that includes independent 3rd party inspections of graphene production facilities, verification of production methods, and volumes and quality control processes.

On 10/10/2022 QS Safety (and its subsidiary, Kyorene) became 1 of only 5 companies in the world, and the only glove company, to earn the coveted Verified Graphene Producer certification. This verification assures our partners and customers that we deliver authentic, high-quality graphene-based gloves.

KYORENE PROPERTIES

THERMAL REGULATION

BACTERIOSTATIC

CUT RESISTANT

ODOR NEUTRALIZING

UV PROTECTION

ABRASION RESISTANT

NO FIBERGLASS OR STAINLESS STEEL

Quality, performance and functionality are at the forefront of the Kyorene range of work gloves. Kyorene's spectrum of properties allow safety professionals to address unmet hazards and make the workplace safer for the men and women in it. Our gloves retain all the properties of graphene even after repeated use and washing, because these properties are inherent to the glove, not applied to it.

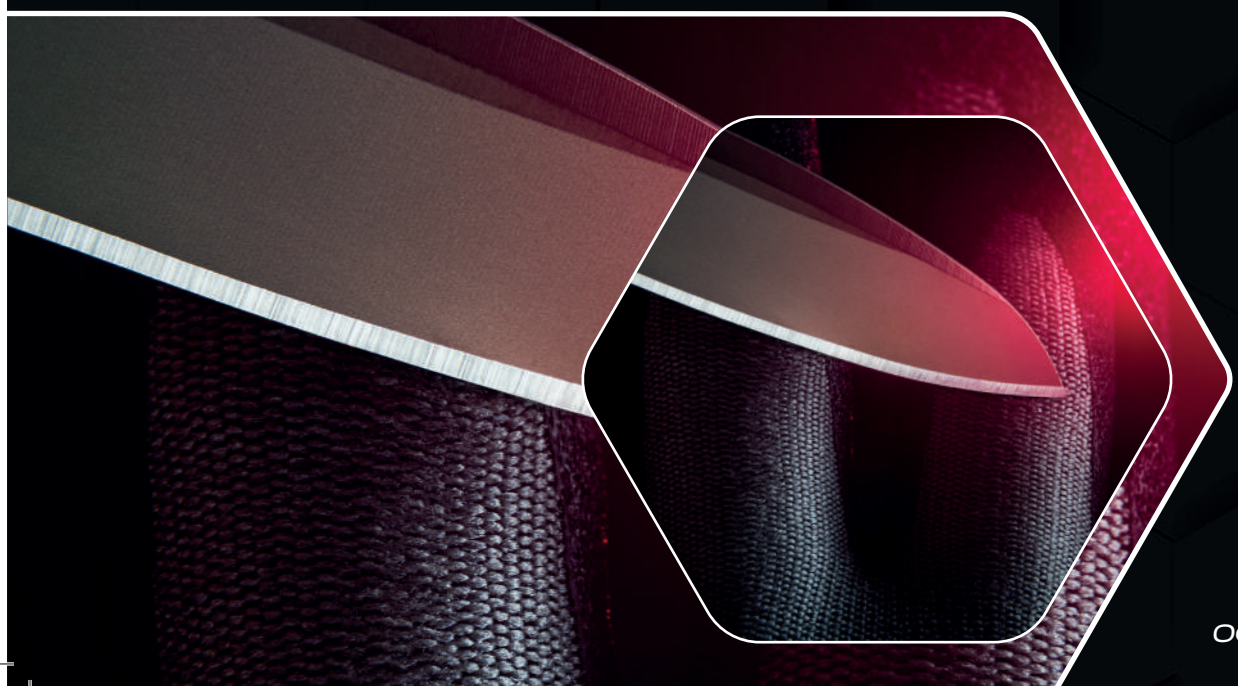
Kyorene Pro retains the amazing properties that makes the Kyorene range great, but raises the bar even further by adding more unique properties. The Kyorene Pro range offers ergonomically designed gloves that are even more durable without the use of stainless steel or fiberglass.

KYORENE®
THE GRAPHENE FIBER

- BACTERIOSTATIC
- THERMAL REGULATION
- ODOR NEUTRALIZING
- UV-PROTECTION
- ABRASION RESISTANCE
- CUT RESISTANCE

KYORENE® PRO GRAPHENE

- NO FIBERGLASS
  NO STAINLESS STEEL




KYORENE
PRO GRAPHENE
00-849WP S
ANSI
A4
CUT
ANSI
6
ABR
EN388
EN511
KYORENE
PRO GRAPHENE

WHERE INNOVATION MEETS SUSTAINABILITY

Through a comprehensive assessment conducted by SGS, the world's leading testing, inspection and certification company, Kyorene has measured its greenhouse gas emissions across the entire life cycle of its gloves, from raw material extraction to disposal.

The assessment revealed that Kyorene's use of graphene fiber in its gloves reduces CO_2 emissions by up to 30% compared to gloves made with traditional materials.

ECOVADIS GOLD MEDAL

Kyorene has been recognized among the top 5% of companies worldwide for sustainability, excelling in:

- ***Environment***
- ***Labor & Human Rights***
- ***Ethics***
- ***Sustainable Procurement***

Global Recycled Standard

GOLD 2025 ecovadis Sustainability Rating

GRS CERTIFIED (GLOBAL RECYCLED STANDARD)

Part of our range is crafted from recycled fibers, showcasing our dedication to sustainability by utilizing certified polyester and graphene fibers.

ECO-FRIENDLY FACILITIES

Kyorene operates both a wastewater treatment facility, which purifies water by removing pollutants and contaminants, and a waste gas control facility, which reduces harmful emissions from industrial processes, helping to protect air quality and reduce our environmental impact.

SOLAR ENERGY COMMITMENT

48.000 m² *of rooftop* ***solar installation.***

85% *of our electricity demand is met through* ***solar energy.***


KYORENE®
THE GRAPHENE FIBER
6
01-110
EN388
EN407
ANSI
A1
4121A XYXXXX CUT
QS Safety Luxembourg S.à r.l.
8-10 rue Mathias Hardt
L-1717 Luxembourg
Oeko-Tex®
Standard 100
YYY-mm PO no.-XXXXX

KYORENE®
THE GRAPHENE FIBER

PRODUCTS

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

00-101

EN 16350

EN 388

1X4XA

ANSI A1

CUT

FEATURES

- 18 gauge grey Kyorene® graphene ESD liner

APPLICATIONS

- Automotive manufacturing, light manufacturing, aerospace, electronics

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

00-102

EN 16350

EN 388
4X31A

EN 407
X1XXXX

ANSI A1
CUT

TOUCH SCREEN

FEATURES

- 18 gauge grey Kyorene® graphene ESD liner
- Black HCT® nano-foam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, aerospace, electronics

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

00-110

EN 388
4X21A

EN 407
X1XXXX

ANSI A1
CUT

Global Recycled Standard

TOUCH SCREEN

FEATURES

- 18 gauge grey Kyorene® graphene recycled polyester liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping, aerospace

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

00-111

EN 388
4X21A

EN 407
X1XXXX

ANSI A1
CUT

Global Recycled Standard

TOUCH SCREEN

FEATURES

- 18 gauge grey Kyorene® graphene recycled polyester liner
- Black HCT® nano-foam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping, aerospace

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®

THE GRAPHENE FIBER

EN388 *LEVEL A*

01-101

TOUCH SCREEN

EN 388	EN 407	EN 511	ANSI A1
4X21A	X1XXXX	X1X	CUT

FEATURES

- 15 gauge grey Kyorene® graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

01-103

TOUCH SCREEN

EN 388
4121A

EN 407
X1XXXX

ANSI A1
CUT

FEATURES

- 18 gauge grey Kyorene® graphene liner
- Black HCT® micro-foam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping, aerospace

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

01-107

Dotted Palm

TOUCH SCREEN

EN 388

4121A

EN 407

X1XXXX

CUT

FEATURES

- 15 gauge grey Kyorene® graphene liner
- Black HCT® microfoam nitrile palm coating w/ dots

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

01-108

Dotted Palm

TOUCH SCREEN

EN 388 — 4121A

EN 407 — XIXXXX

ANSI A1 — CUT

FEATURES

- 15 gauge grey Kyorene® graphene liner
- Black HCT® microfoam nitrile knuckle coating w/ dots

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

01-109

EN 388
4121A

EN 407
X1XXXX

ANSI A1
CUT

TOUCH SCREEN

FEATURES

- 15 gauge grey Kyorene® graphene liner
- Blue nitrile knuckle coating w/ black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

01-110

EN 388
4142A

EN 407
XIXXXX

ANSI A1
CUT

TOUCH SCREEN

FEATURES

- 15 gauge grey Kyorene® graphene liner
- Full blue nitrile coating w/ black HCT® microfoam nitrile palm coating

APPLICATIONS

- Aerospace, automotive manufacturing, maintenance

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®

THE GRAPHENE FIBER

EN388 *LEVEL A*

02-101

EN 388

4X31A

EN 407

X1XXXX

ANSI A1

CUT

TOUCH SCREEN

FEATURES

- 15 gauge grey Kyorene® graphene liner
- Black HCT® nano-foam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping, aerospace

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL A*

03-101RHV

EN 388 — 4121A

EN 407 — XIXXXX

ANSI A1 — CUT

FEATURES

- 15 gauge grey/hi-vis Kyorene® graphene liner
- Hi-vis HCT® Lite nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE · Oeko-Tex® Standard 100 · THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL B*
01-301

EN 388
4X42B

EN 407
X1XXXX

ANSI A2
CUT

FEATURES

- 13 gauge grey Kyorene® graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, appliance manufacturing, sheet metal handling, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL B*

02-205R

Thumb Crotch Reinforcement

EN 388

4X42B

ANSI A2

CUT

TOUCH SCREEN

FEATURES

- 13 gauge grey Kyorene® graphene liner
- Black HCT® nano-foam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, appliance manufacturing, sheet metal handling, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL B*

04-205R

EN 388

4X42B

CUT

FEATURES

- 13 gauge grey Kyorene® graphene liner
- Polyurethane palm coating

APPLICATIONS

- Automotive manufacturing, appliance manufacturing, sheet metal handling, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL B*

00-118

WINTER

TOUCH SCREEN

EN 388	EN 407	EN 511	
4X32B	X2XXXX	X2X	ANSI A2 CUT

FEATURES

- 15 gauge grey Kyorene® graphene liner & 7g poly-acrylic lining
- Black HCT® micro foam Nitrile Palm coating

APPLICATIONS

- Food processing, building and construction, carpentry, installation and transport work, machine driving, warehouse and airport work, repair work, shipping and outdoor winter use

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL C*

00-125

WINTER

TOUCH SCREEN

EN 388 4X32C

EN 407 X2XXXX

EN 511 X2X

ANSI A3 CUT

FEATURES

- 15G graphene nylon liner with acrylic lining, blue nitrile full coating
- Black HCT® micro foam Nitrile Palm coating

APPLICATIONS

- Bottling, canning, masonry, demolition

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®

THE GRAPHENE FIBER

EN388 *LEVEL C*

01-501

EN 388

4X42C

EN 407

X1XXXX

ANSI A3

CUT

FEATURES

- 13 gauge grey Kyorene® graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, appliance manufacturing, metal stamping, sheet metal handling, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL D*

02-405R

EN 388

4X42D

CUT

FEATURES

- 13 gauge grey Kyorene® graphene liner
- Black HCT® nano-foam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, appliance manufacturing, metal stamping, sheet metal handling, handling extruded plastics, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL D*

04-405

EN 388

4X42D

ANSI A4

CUT

FEATURES

- 13 gauge grey Kyorene® graphene liner
- Black polyurethane palm coating

APPLICATIONS

- Automotive manufacturing, appliance manufacturing, metal stamping, sheet metal handling, construction, plastics, steel handling

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL E*

00-408

Thumb Crotch Reinforcement

EN 388	EN 407	EN 511	
4X42EP	X2XXXX	X2X	ANSI A5 CUT

IMPACT

WINTER

TOUCH SCREEN

FEATURES

- 13 gauge grey Kyorene® graphene liner & 7g poly-acrylic lining
- Black HCT® microfoam nitrile knuckle coating

APPLICATIONS

- Construction, off-shore drilling, maintenance, refineries

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL F*
01-701

EN 388
4X42F

EN 407
X1XXXX

ANSI A6
CUT

FEATURES

- 13 gauge grey Kyorene® graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Metal fabrication, metal stamping, steel processing, steel handling, recycling

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE®
THE GRAPHENE FIBER

EN388 *LEVEL F*

09-605R1

Thumb Crotch Reinforcement

EN 388

4X42F

EN 407

X1XXXX

ANSI A6

CUT

FEATURES

- 13 gauge grey Kyorene® graphene liner
- Black crinkle latex palm coating

APPLICATIONS

- Bottling, glass handling, heavy material handling

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE®
PRO GRAPHENE

PRODUCTS

KYORENE® PRO GRAPHENE

EN388 LEVEL A

00-810

EN 388 — 4121A

EN 407 — X1XXXX

EN 511 — X1X

ANSI A1 — CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, maintenance, warehousing, landscaping, aerospace, all general purpose work

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

CE Oeko-Tex® Standard 100 THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL C

00-832

EN16350

EN 388

4X42C

ANSI A3

CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene ESD liner
- Black HCT® nano-foam nitrile knuckle coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, aerospace, electronics

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL C

K01-303

EN 388

4X42C

ANSI A3

CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, light manufacturing, aerospace, electronics

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

CE Oeko-Tex® Standard 100 THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL C

K02-303L

EN 388

4X31C

CUT

FEATURES

- 18 gauge 100D grey Kyorene® Pro graphene liner
- Black HCT® nano-foam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, metal stamping, sheet metal handling, steel processing, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

CE Oeko-Tex® Standard 100 THERMAL REGULATION °F

KYORENE® PRO GRAPHENE

EN388 LEVEL C

K03-303RHV

Thumb Crotch Reinforcement

EN 388

4X42C

ANSI A3

CUT

FEATURES

- 18 gauge grey/hi-vis Kyorene® Pro graphene liner
- Hi-vis HCT® Lite nitrile palm coating

APPLICATIONS

- Automotive manufacturing, metal stamping, sheet metal handling, steel processing, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

CE Oeko-Tex® Standard 100 THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL D

K01-403

EN 388

4X42D

EN 407

X1XXXX

ANSI A4

CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, metal stamping, sheet metal handling, steel processing, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL D

K01-403RT

EN 388

4X42DP

ANSI A4 CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Oil & gas, mining, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL D

K01-424

EN 388

4X43D

EN 407

X1XXXX

CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Full blue nitrile coating w/ black HCT® microfoam nitrile palm coating

APPLICATIONS

- Aircraft maintenance, fluid handling,engine assembly, general handling and maintenance

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL D

K02-403R

EN 388

4X42D

ANSI A4

CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black HCT® nano-foam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, metal stamping, sheetmetal handling, steel processing, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

CE Oeko-Tex® Standard 100 THERMAL REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL D

K03-403RHV

EN 388

4X43D

ANSI A4

CUT

FEATURES

- 18 gauge grey/hi-vis Kyorene® Pro graphene liner
- Hi-vis HCT® Lite nitrile palm coating

APPLICATIONS

- Automotive manufacturing, metal stamping, sheet metal handling, steel processing, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL D

K04-403

EN 388

4X42D

ANSI A4 CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black polyurethane palm coating

APPLICATIONS

- Oil & gas, mining, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL D

K00-845IP

Thumb Crotch Reinforcement

EN 388

4X43DP

ANSI A4

CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Oil & gas, mining, construction, dusty and humid environments

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL D

K00 - 805

EN 388

2X4XD

ANSI A4

CUT

FEATURES

- 45cm, 7 gauge grey Kyorene® Pro graphene sleeve

APPLICATIONS

- Automotive, glass industry, metal fabrication, whitegoods, machinery equipment

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

CE Oeko-Tex® Standard 100 THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL E

00-839VC

Thumb Crotch Reinforcement

TOUCH SCREEN

EN 388	EN 407	EN 511	
4X32E	X2XXXX	X2X	ANSI A5 CUT

FEATURES

- 18G graphene Ultra High Molecular Weight Polyethylene liner with acrylic lining
- Black HCT® micro foam Nitrile Palm coating

APPLICATIONS

- Forklift drivers, carpentry, handling glass and windows, handling heavy equipment

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

CE Oeko-Tex® Standard 100 THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL E

K01-501

EN 388

4X43E

EN 407

X1XXXX

ANSI A5

CUT

FEATURES

- 15 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Automotive manufacturing, metal stamping, sheet metal handling, plastics

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL F

K01-605

EN 388

4X43F

ANSI A6

CUT

FEATURES

- 13 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Oil & gas, mining, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL F

K00-600

EN 388

2X4XF

ANSI A6

CUT

FEATURES

- 45cm, 13 gauge grey Kyorene® Pro graphene sleeve

APPLICATIONS

- Metal fabrication, metal stamping, steel processing, glass handling

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL F

K00-600T

EN 388

2X4XF

ANSI A6

CUT

FEATURES

• 45cm, 13 gauge grey Kyorene® Pro graphene sleeve with thumb hole

APPLICATIONS

• Metal fabrication, metal stamping, steel processing, glass handling

PROPERTIES

• Bacteriostatic
• Thermal regulation
• Odor neutralizing
• Cut resistance
• Abrasion resistance
• UV protection
• No stainless steel
• No fiberglass

CE Oeko-Tex® Standard 100 THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL F

K00-800

EN 388

3X4XF

ANSI A8

CUT

FEATURES

- 45cm, 7 gauge grey Kyorene® Pro graphene sleeve

APPLICATIONS

- Metal fabrication, metal stamping, steel processing, glass handling

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL F

K01-903R

EN 388

4X43F

EN 407

X1XXXX

CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Metal fabrication, steel processing, recycling, glass manufacturing

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL °F REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL F

K01-903RT

Thumb Crotch Reinforcement

IMPACT

TOUCH SCREEN

EN 388

4X43FP

EN 407

X1XXXX

ANSI A9

CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Oil & gas, mining, construction

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100

THERMAL REGULATION

KYORENE® PRO GRAPHENE

EN388 LEVEL F

00-898

EN 388	EN 407	EN 511	
4X43FP	X2XXXX	X2X	CUT

FEATURES

- 18 gauge grey Kyorene® Pro graphene liner & 7g poly-acrylic lining
- Black HCT® microfoam nitrile palm coating

APPLICATIONS

- Construction, off-shore drilling, maintenance, refineries

PROPERTIES

- Bacteriostatic
- Thermal regulation
- Odor neutralizing
- Cut resistance
- Abrasion resistance
- UV protection
- No stainless steel
- No fiberglass

Oeko-Tex® Standard 100


KYORENE®
PRO GRAPHENE
00-849WP S
KYORENE®
PRO GRAPHENE

EN 388

EN388

The EN 388 standard specifies the requirements, test methods, and performance levels for gloves designed to protect against mechanical risks. It evaluates the material's resistance to abrasion, blade cuts, tearing, puncture, and, in the latest versions, straight blade cuts (ISO 13997) and impact protection.

Each certified glove is marked with the EN 388 pictogram followed by a series of numbers and letters indicating the protection level in each category:

ABRASION (1–4)
BLADE CUT (1–5)
TEAR (1–4)

4 1 2 1 A X

IMPACT PROTECTION (X, F, P)
CUT TDM TEST (A–F)
PUNCTURE (1-4)

This standard is essential when choosing the right glove for specific tasks based on mechanical risk levels.

The ANSI/ISEA 105 standard measures the cut resistance of protective gloves using a straight-edge blade under controlled pressure. It assigns a cut level from A1 to A9, based on the amount of grams of force required to cut through the material.

EN388 CUT VS ANSI CUT

EN388 measures **force** using **Newton VS** ANSI/ISEA 105 measures **mass** using **grams**

EN388: 2016 Tested to ISO 13997	A	B	C	D	E	F
	2N–5N	5N–10N	10N–15N	15N–22N	22N–30N	30N+

ANSI/ISEA 105-16 Grams	A1	A2	A3	A4	A5	A6	A7	A8	A9
	200–499	500–999	1000–1499	1500–2199	2200–2900	3000–3999	4000–4999	5000–5999	6000+

N = g × 0.00981
Force = mass × 0.00981

EN 407

The EN 407 standard certifies protective gloves against thermal risks, including heat, flames, and sparks. It evaluates performance in six areas:

- Flammability resistance
- Contact heat
- Convective heat
- Radiant heat
- Small splashes of molten metal
- Large splashes of molten metal

Each glove is rated with numbers (0–4) based on its resistance level in each category.

EN 511

The EN 511 standard specifies requirements for gloves that protect against cold environments, whether due to convection, contact cold, or water penetration.

It tests performance in three areas:

- Resistance to convective cold (0–4)
- Resistance to contact cold (0–4)
- Water penetration (0 or 1 after 30 minutes)

SIZING GUIDE

Measure the circumference of your dominant hand just below your knuckles. The measurement, in centimeters, determines what glove size you wear. See sizing chart below.

6	22 cm
7	23 cm
8	24 cm
9	25 cm
10	26 cm
11	27 cm

CUFF COLOR CORRESPONDS TO GLOVE SIZE

WASHING INSTRUCTIONS

- Experience and laboratory trials with 100% Kyorene® & Kyorene Pro® gloves and fabrics have proven that dry cleaning as well as launderingare suitable cleaning methods.

- We recommend not to use any bleaching or oxidising ingredients or any fabric softeners.

- Recommended washing temperature is between 40C and 60C (104 - 140F) with mild detergents.

- The drying process may cause felting on the fabric surface. Drying temperature should not exceed 70C (158F).

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01 - 06 - 2025

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