



KYORENE®
THE GRAPHENE FIBER



**PRODUCT
CATALOGUE**

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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 thickening, 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



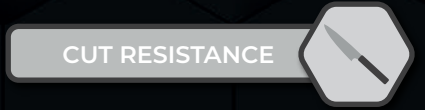
ODOR NEUTRALIZING



UV-PROTECTION



ABRASION RESISTANCE



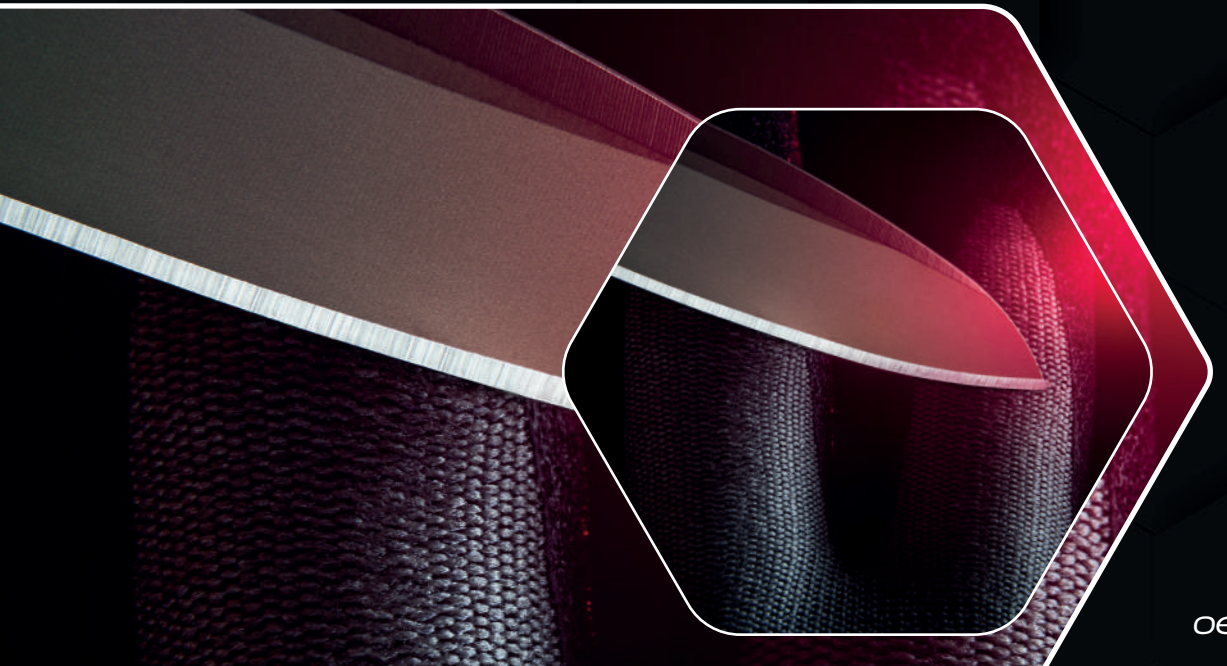
CUT RESISTANCE

KYORENE[®]

PRO GRAPHENE



NO FIBERGLASS
NO STAINLESS STEEL





KYORENE
PRO GRAPHENE
00-849Wp 5

ANSI A4	ANSI 6	EN 388 F	EN 1180 K1	EN 12475 K1	EN 12476 K1
CUT	ABR	TKPAB	TKP	TKP	TKP

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 CO₂ 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**



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

EN388 EN407 ANSI
41 21 A XIXXX CUT 01-110
OS Safety Luxembourg S.à.r.l. S.à.r.l. S.à.r.l.
B-1017 Luxembourg
L-1717 Luxembourg P.000-XXXX

CE



KYORENE[®]
THE GRAPHENE FIBER

PRODUCTS





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
00-101



EN 16350



EN 388



1X4XA



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
00-102



EN 16350



EN 388



4X31A

EN 407



XIXXXX



CUT

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





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
00-110



EN 388



4X21A

EN 407



XIXXXX



CUT



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
01-101



EN 388



4X21A

EN 407



X1XXXX

EN 511



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





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
01-103



EN 388



4121A

EN 407



X1XXXX



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



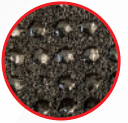
Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
01-107



Dotted Palm



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
01-108



Dotted Palm



EN 388



4121A

EN 407



X1XXXX



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
01-109



EN 388



4121A

EN 407



X1XXXX



CUT

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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
01-110



EN 388



4142A

EN 407



X1XXXX



CUT

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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A
02-101



EN 388



4X31A

EN 407



X1XXXX



CUT



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL A

03-101RHV



Thumb Crotch Reinforcement

EN 388



4121A

EN 407



X1XXXX



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



Oeko-Tex® Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL B
01-301



Thumb Crotch Reinforcement

EN 388



4X42B

EN 407



X1XXXX



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL B
02-205R



Thumb Crotch Reinforcement

EN 388



4X42B



CUT



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





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL B
04-205R



Thumb Crotch Reinforcement

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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL B
00-118



EN 388



4X32B

EN 407



X2XXXX

EN 511



X2X



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL C
00-125



EN 388



4X32C

EN 407



X2XXXX

EN 511



X2X



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL C
01-501



Thumb Crotch Reinforcement

EN 388



4X42C

EN 407



X1XXXX



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





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL D
02-405R



Thumb Crotch Reinforcement

EN 388



4X42D



CUT



TOUCH SCREEN

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





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL E
00-408



Thumb Crotch Reinforcement

EN 388



4X42EP

EN 407



X2XXXX

EN 511



X2X



CUT



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



Oeko-Tex®
Standard 100





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL F
01-701



Thumb Crotch Reinforcement



EN 388



4X42F

EN 407



X1XXXX



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





KYORENE®
THE GRAPHENE FIBER

EN388 LEVEL F
09-605R1



Thumb Crotch Reinforcement

EN 388



4X42F

EN 407



X1XXXX



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



Oeko-Tex®
Standard 100



KYORENE[®]
PRO GRAPHENE

PRODUCTS



KYORENE® PRO GRAPHENE

EN388 LEVEL A 00-810



Thumb Crotch
Reinforcement

EN 388



4121A

EN 407



X1XXXX

EN 511



X1X



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



Oeko-Tex®
Standard 100



KYORENE® PRO GRAPHENE

EN388 LEVEL C
00-832



Thumb Crotch
Reinforcement



EN16350

EN 388



4X42C

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



KYORENE[®] PRO GRAPHENE

EN388 LEVEL C
K01-303



EN 388



4X42C



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



Oeko-Tex[®]
Standard 100



KYORENE® PRO GRAPHENE

EN388 LEVEL C

K02-303L



Thumb Crotch Reinforcement

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



Oeko-Tex®
Standard 100



KYORENE® PRO GRAPHENE

EN388 LEVEL C

K03-303RHV



Thumb Crotch
Reinforcement

TOUCH
SCREEN

EN 388



4X42C



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



KYORENE® PRO GRAPHENE

EN388 LEVEL D
K01-403



Thumb Crotch
Reinforcement

EN 388



4X42D

EN 407



X1XXXX



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



KYORENE® PRO GRAPHENE

EN388 LEVEL D
K01-403RT



Thumb Crotch
Reinforcement



EN 388



4X42DP



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



KYORENE® PRO GRAPHENE

EN388 LEVEL D
K01-424



Thumb Crotch
Reinforcement



EN 388

EN 407



4X43D

XIXXXX

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



KYORENE® PRO GRAPHENE

EN388 LEVEL D K02-403R



EN 388



4X42D



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



Oeko-Tex®
Standard 100



KYORENE® PRO GRAPHENE

EN388 LEVEL D

K03-403RHV



Thumb Crotch Reinforcement



EN 388



4X43D



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



KYORENE[®] PRO GRAPHENE

EN388 LEVEL D
K04-403



EN 388



4X42D



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



KYORENE[®] PRO GRAPHENE

EN388 LEVEL D

KOO-845IP



Thumb Crotch Reinforcement



EN 388



4X43DP



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



KYORENE®

PRO GRAPHENE

EN388 LEVEL D

K00 - 805



EN 388



2X4XD



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



Oeko-Tex®
Standard 100



KYORENE® PRO GRAPHENE

EN388 LEVEL E
00-839VC



Thumb Crotch Reinforcement



EN 388

EN 407

EN 511



CUT



4X32E



X2XXXX



X2X

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



Oeko-Tex®
Standard 100



KYORENE® PRO GRAPHENE

EN388 LEVEL E K01-501



Thumb Crotch Reinforcement

EN 388



4X43E

EN 407



X1XXXX



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



KYORENE® PRO GRAPHENE

EN388 LEVEL F K01-605



Thumb Crotch Reinforcement



EN 388



4X43F



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



KYORENE® PRO GRAPHENE

EN388 LEVEL F K00-600



EN 388



2X4XF



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



KYORENE® PRO GRAPHENE

EN388 LEVEL F
KOO-600T



EN 388



2X4XF



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



Oeko-Tex®
Standard 100



KYORENE® PRO GRAPHENE

EN388 LEVEL F K00-800



EN 388



3X4XF



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



KYORENE® PRO GRAPHENE

EN388 LEVEL F
K01-903R



Thumb Crotch
Reinforcement

TOUCH
SCREEN

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



KYORENE® PRO GRAPHENE

EN388 LEVEL F K01-903RT



Thumb Crotch
Reinforcement



EN 388



4X43FP

EN 407



X1XXXX



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



KYORENE® PRO GRAPHENE

EN388 LEVEL F 00-898



Thumb Crotch Reinforcement

EN 388



4X43FP

EN 407



X2XXXX

EN 511



X2X

ANSI
A9



CUT



IMPACT



WINTER



TOUCH
SCREEN

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

ANSI A4 Cut	ANSI 6 Abr	EN388 A Abr	EN388 B Abr	EN388 C Abr	TOUGH FIBERS
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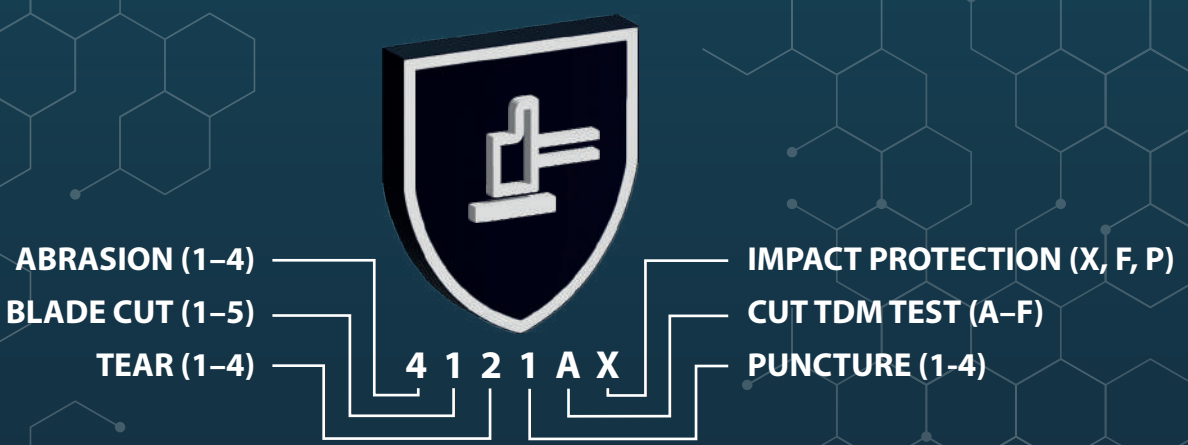
KYORENE[®]
PRO GRAPHENE

EN 388



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:



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 2N-5N	B 5N-10N	C 10N-15N	D 15N-22N	E 22N-30N	F 30N+			
ANSI/ISEA 105-16 Grams	A1 200-499	A2 500-999	A3 1000-1499	A4 1500-2199	A5 2200-2900	A6 3000-3999	A7 4000-4999	A8 5000-5999	A9 6000+

$$N = g \times 0.00981$$

$$\text{Force} = \text{mass} \times 0.00981$$

EN407

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.

A close-up photograph of a dark blue protective glove with the brand name 'KYORENE' printed in large, glowing orange letters. The glove is being held over a flame, demonstrating its heat resistance.

KYORENE

EN511

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)



ABC



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.



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 laundering are 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).



KYORENE®
THE GRAPHENE FIBER



www.kyorene.com



Tel: +39 02 83 55 05 22



contact@kyorene.com