

DYNEEMA[®] DIAMOND 3.0 FIBER

FOR THE SAFEST-EVER
PAIR OF HANDS



THREE YEARS OF R&D. A THIRD-GENERATION BREAKTHROUGH

In the world of glove protection, Dyneema® Diamond fiber has been a cut above the rest for over a decade. Now, our third-generation fiber – backed by three years of R&D – surpasses even our own distinguished record in cut protection, comfort, and dexterity.

Dyneema® Diamond 3.0 fiber is here. And it's been built for industries where safety can't be compromised.

Sectors we serve:

- ◇ Automotive
- ◇ Construction
- ◇ Oil & Gas
- ◇ Aeronautics



A CUT ABOVE THE REST: SUPERIOR CUT AND SLASH RESISTANCE

THIRD-GENERATION DYNEEMA®
DIAMOND FIBER DELIVERS THE
HIGHEST CUT PERFORMANCE ON
SINGLE YARN TECHNOLOGY.



COMFORT HAS NEVER BEEN STRONGER

DYNEEMA® DIAMOND 3.0 IS AVAILABLE
IN THREE DISTINCT GRADES. EACH ONE
IS MORE CUT-RESISTANT THAN THE
EQUIVALENT PREVIOUS-GENERATION
DYNEEMA® DIAMOND FIBER.

JUST HOW GOOD IS IT?

6X

higher cut resistance
than gloves made with
generic HPPE fiber.

+2

cut level compared to
previous generations of
Dyneema® Diamond fiber.

No matter the application, glove
designers can minimize weight and
maximize comfort, with no compromise
on safety.

DTEX	Gauge	Cut level
110	21	A3-A4
220	18	A4-A5
440	15	A6

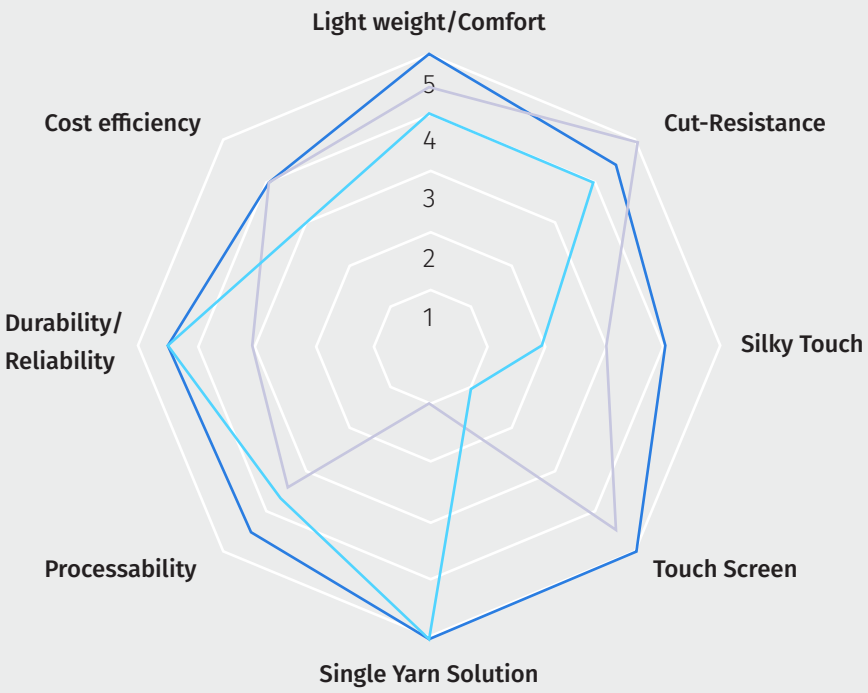
ALL-ROUND PERFORMANCE FOR ALL-DAY WEAR

DID YOU KNOW 70% OF WORKPLACE
HAND INJURIES ARE AVOIDABLE IF
WORKERS WEAR GLOVES?

During long shifts, gloves that cause
itchiness, sweat, or restrict movement
often get ditched — leaving hands
unprotected and at risk.

Dyneema® Diamond 3.0 fiber offers a
better way forward, supporting the
creation of gloves that are lighter, softer,
thinner, cooler, and more comfortable
than anything else on the market.

Plus, our touchscreen-friendly technology
enables glove designs that meet the
needs of workers operating modern
devices and machinery.



- Metal Engineered HPPE
- Dyneema® 3GX24
- Dyneema® 3G12 & 3G20

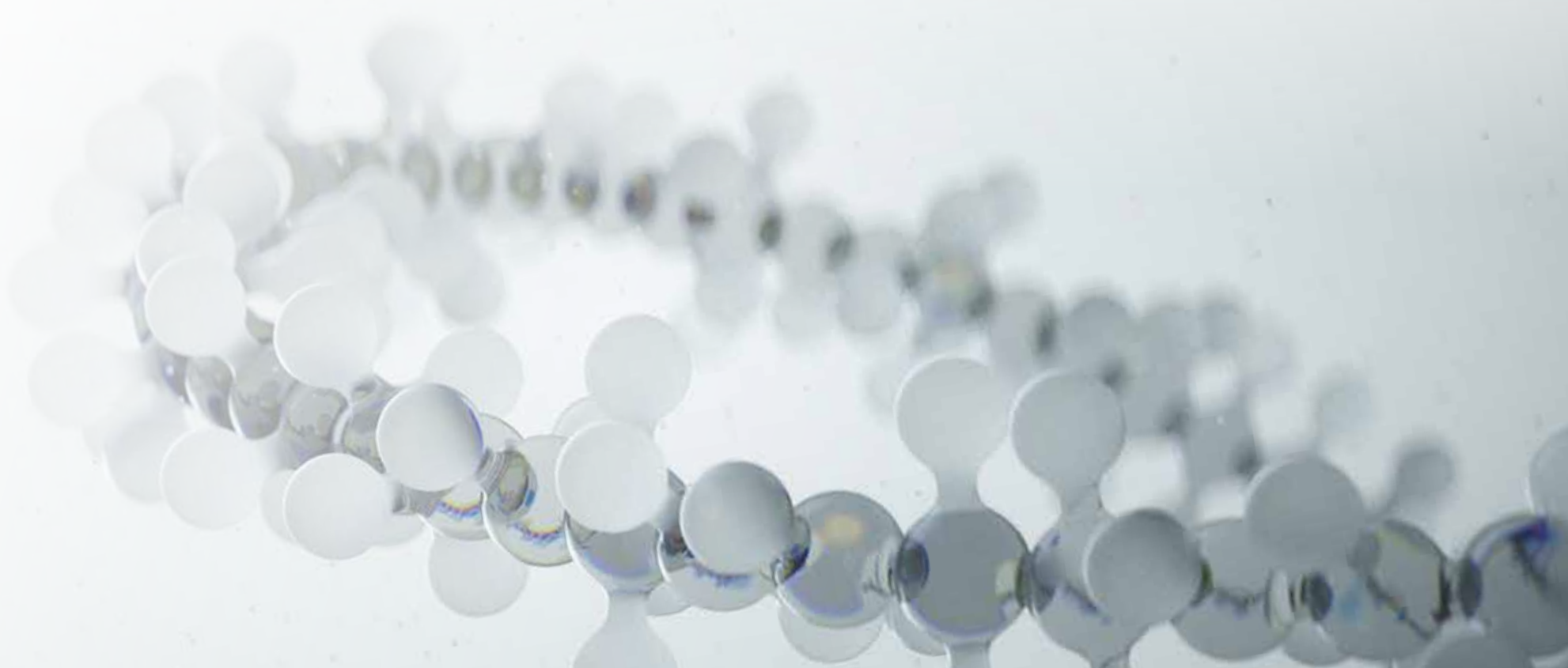
OUR SINGLE YARN TECHNOLOGY

CUT PROTECTION DOESN'T HAVE TO COME WITH COMPROMISE. AND WITH DYNEEMA® DIAMOND 3.0 FIBER, IT DOESN'T.

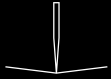
Our patented process starts at the molecular level. We strengthen our UHMWPE polymer and embed each fiber with specially engineered microparticles. This enhances cut resistance within the fiber itself – so there's no need for any reinforcement yarns to meet protection standards.

Why does this matter? Because fewer components mean less bulk, less stiffness, and no abrasive materials next to the skin.

Just a single yarn. One smooth, breathable set of gloves. And safe protection with all-day comfort.



KEY PERFORMANCE BENEFITS AT A GLANCE



Outstanding cut protection

Provides level A6 protection without requiring reinforcement yarns



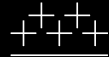
Silky touch

The thinnest, most comfortable fiber in the Dyneema® Diamond portfolio



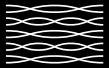
Ultra lightweight

Substantial material reduction means gloves can be more than 40% lighter



Improved coating adhesion

Ensuring a more robust interaction with various coatings



High fiber integrity

Almost no dust released during the harsh knitting process



Touchscreen friendly

Helps gloves stay on and continue to protect the wearer

KNOW WHAT YOU BUY: THE DYNEEMA® DIFFERENCE

Procurers of cut-resistant gloves need to be certain the protection on the label holds up in real-world use. That's why in benchmark studies, we put nearly 100 gloves to the test – ranging from A3 to A6 cut levels and featuring various ingredient fibers.

The results were concerning:
36% of the gloves without Dyneema® underperformed their stated protection level by one or two protection levels.



A GRADE FOR EVERY APPLICATION

3G12-220 | 3G12-440 | 3G12-725

3G19-330 | 6GX19-330BK | 6GX19-440

3G20-280 | 3G20-560

3GX24-110 | 3GX24-220 | 3GX24-440

	ANSI 105:2016	A2 (≥500g)	A3 (≥1000g)	A4 (≥1500g)	A5 (≥2200g)	A6 (≥3000g)
	EN388:2016	B (≥5N) Construction, packaging, warehouse, general purpose 	C (≥10N) Light metal handling, light glass handling 	D (≥15N) Metal fabrication, glass appliance, manufacturing, automotive assembly 	E (≥22N) Metal working, construction, handling sharp materials 	F (≥30N) Heavy metals, sharp glass, construction, automotive assembly 
Knitting gauge	G21 Ultra-light weight		3GX24-110	3GX24-110		
	G18 Light weight	3G12-220	3G20-280	3GX24-220	3GX24-220	
	G15 Medium weight	3G19-330	3G12-440	3G20-560		3GX24-440
			6GX19-330BK	6GX19-440		
	G13 Heavy weight			3G12-725		
	Cut level					

DESIGN WITH DYNEEMA[®] AND OUR STRENGTH BECOMES YOURS

WE WORK HAND IN HAND WITH
OUR CUSTOMERS THROUGHOUT THE
DESIGN AND PRODUCTION PROCESS.

Our technical teams work closely with
glove producers to deliver high-quality
applications that meet the strictest
performance standards.

We offer...	You get...
Technical excellence	Superior end products that meet industry requirements
Expert knowledge	Insights from 1,000+ global experts
Scalability	Fast expansion into new regions for swift growth
Robust supply chains	Supply guarantee and supply chain security
World-renowned reputation	Increased product value by leveraging the Dyneema [®] brand
Consistent customer support	Innovative solutions co-developed with our technical teams
IP protection	A technological edge granted by more than 600 patents worldwide
Exhaustive testing capabilities	An accelerated development process



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Want to get your hands on Dyneema®
Diamond 3.0 fiber? Connect with us now
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