NON-WOVEN LINER • WAVES™ LITE OR CRUMBS NITRILE COATINGS • TYPE-A CHEMICAL PROTECTION

FilaPro CHEM

Discover the next generation of hand protection against chemicals with our innovative, lightweight gauntlet featuring a non-woven polyester liner for unmatched flexibility and comfort.

Designed to exceed industry standards, this cutting-edge Nitrile gauntlet offers superior chemical protection, grip, durability, and a host of advanced features.

Elevate your portfolio with the future of protective gear—engineered for performance and comfort.

CE

EN388:2016 +A1:2018
4112A

EN ISO 374-1:2016 +A1:2018/Type A
AJKLMNOPT

EN ISO 374-5: 2016
VIRUS

G2
ISO 18889

EN407:2020
X1XXXX

ANSI/ISEA 105
A1
4 3

	CHEMICAL	WAVES LEVELS	CRUMBS LEVELS
A	Methanol	3	2
J	n-Heptane	6	6
K	40% Sodium Hydroxide	6	6
L	96% Sulphuric Acid	4	4
M	65% Nitric Acid	4	4
N	99% Acetic Acid	4	3
O	25% Ammonium Hydroxide	6	6
P	30% Hydrogen Peroxide	6	6
T	37% Formaldehyde	6	6

APPLICATIONS

Automotive, Chemical, Life Science, Machinery and Equipment, Oil and Gas, Agriculture - Pesticides and Fertilizer

Crumbs Finish
superior dexterity

Waves™ Lite Finish
superior grip

Non-Woven Fabric Liner
comfort, flexibility and skin friendly

Flat Nitrile Base Coating
superior chemical resistance and durability

Glove	**FilaPro Chem**
Style Code	G35-WL-NWG-SIZE (Waves™ Lite) G35-CRM-NWG-SIZE (Crumbs)
Sizes	M,L,XL,XXL
Liner	Non-woven polyester
Coating	Fully coated Flat Nitrile base with Waves™ Lite (WL) or Crumbs (CRM) second coating
Colours	White liner, Green coating

Sanitized Actifresh

These gloves are treated with the Sanitized® hygiene function and are therefore protected against bacterial and fungal growth. This article contains the active biocidal substance Sodium Pyrithione / Thiabendazol

REACH COMPLIANCE

March 10, 2025

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STEP THREE: PALM FINISH

Application of the Waves™ Lite (better grip) or Crumbs (better dexterity) process will determine the texture of the palm

STEP TWO: NITRILE COATING

Flat Nitrile coating provides top-notch chemical barrier (9 chemicals instead of the basic 6 in Type A gloves), plus many chemicals outside the EN ISO 374 range

STEP ONE: LINER

Unique non-woven polyester liner delivers comfort, perfect fit, flexibility and stretch

Innovative

The glove features a non-woven polyester liner, the first of its kind in the hand protection industry.

Chemical Database with more than 600 permeation datapoints

With customized, comprehensive and reliable permeation data that goes far beyond the basics of EN ISO 374, customers can select the right glove for their specific chemical environment, minimizing the risk of accidents.

ISO 18889: G2 Pesticide rating

Whole hand protection, handling diluted or concentrated pesticides with moderate mechanical protection.

Dermatest® certified - ready for extension certification

This Dermatest-certified glove offers the customer a higher level of skin friendliness and health, leading to an improved user experience.

LABS/PWIS conform according to VDMA 24364

LABS-free gloves, according to VDMA 24364, offer significant added value by helping to ensure high-quality, defect-free products during the automotive painting process.

Grip

With our patented Waves™ Lite surface texture, FilaPro Chem ensures a secure grip in dry, wet and oily conditions for reliable safety in slippery environments.

Durability

The glove's robust Nitrile coating ensures durability and resistance to wear, extending its lifespan.

FilaPro Chem is an industrial chemical resistant gauntlet with exceptional grip and abrasion resistance, with unmatched comfort, flexibility and dexterity.

WHY WOULD I WANT A NITRILE CHEMICAL GAUNTLET?

As a Nitrile chemical-resistant gauntlet, FilaPro Chem offers the classic protection against a wide range of chemical groups, including:

- Acid
- Alkalis
- Diesel
- Motor Oil
- Phthalates
- Siloxane
- Alcohol
- Antiseptic
- Hydroxides
- Oxide
- Plant Oil
- Aliphatics
- Detergents
- Metal
- Peroxide
- Salts

WHERE WOULD I WANT TO USE A NITRILE CHEMICAL GAUNTLET?

- Pharmaceuticals
- Adhesives
- Ship building
- Chemicals
- Textiles
- Medical
- Automotive
- Construction
- Cosmetics

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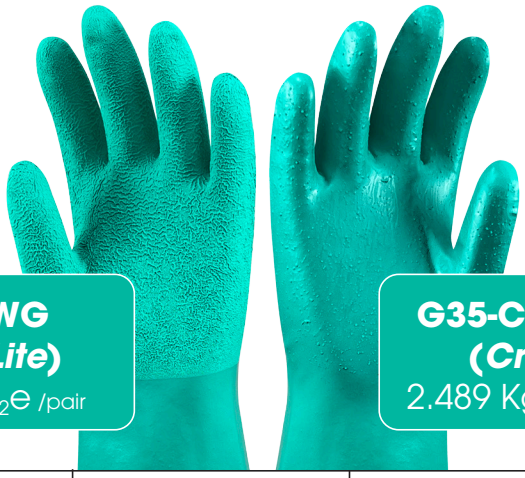
Benchmarking the FilaPro Chem carbon footprint with conventional chemical resistant gloves.



G35-WL-NWG (*Waves™ Lite*)
2.496 Kg CO_2e /pair

G35-CRM-NWG (*Crumbs*)
2.489 Kg CO_2e /pair

Equivalent Nitrile with Cotton liner
2.976 Kg CO_2e /pair

PACKAGING | **MANUFACTURING** 1.989 Kg CO_2e 80% | USE PHASE | END OF LIFE

Assessment Boundary
'Cradle to Grave' (raw material extraction to disposal of final product at end-of-life)

ASSESSMENT TOOLS:

WRI/WBCSD Greenhouse Gas Protocol Product Standard | "ecoinvent" 3.8 Database | SimaPro 9.4 software | ISO 14040 Standard | ISO 14044 Standard | ISO 14067 Standard

Disclaimer: This study was completed on July 15, 2024. The results will remain valid until July 15, 2026 (24 months) on the condition that no changes are made to the product specifications, processes, or supply chain following the study.

IN THE WORDS OF END USERS:

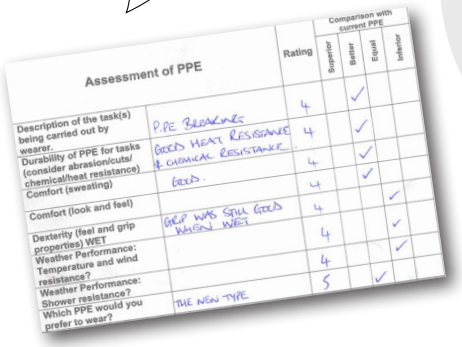
UK based chemical industry
Wearer trial done with UK chemical company against supported glove Canning into IBCs, bagging V62

Overall rating "excellent".

Comfort better, dexterity better compared to current used glove

Better in comfort (sweating), look and feel and in dexterity and grip.

Easy to get in and out of the glove



Assessment of PPE		Rating	Comparison with current PPE: Superior	Better	Equal	Inferior
Description of the task(s) being carried out by wearer.	P.P.E. BREAKING	4		✓		
Durability of PPE for tasks (consider abrasion/cuts/ chemical/heat resistance)	GOOD HEAT RESISTANCE & CHEMICAL RESISTANCE	4		✓		
Comfort (sweating)	GOOD.	4		✓		
Comfort (look and feel)		4			✓	
Dexterity (feel and grip properties) WET	GRIP WAS STILL GOOD WHEN WET	4			✓	
Weather Performance: Temperature and wind resistance?		4			✓	
Weather Performance: Shower resistance?		4			✓	
Which PPE would you prefer to wear?	THE NEW TYPE	5		✓		

German based chemical company
Waste water, sampling of chemicals in process plants, cleaning of filter units in process plants. Wear trial against unsupported glove

Grip feel very good, and safe

Fingertip dexterity equal to or better

Grip - dry, wet and oil: equal/better/better

Comfort better

Another UK based chemical industry
Wearer trial done with UK chemical company against supported glove

Applications of manufacturing and chemical handling – mainly oil handling and some chemicals.

Fitting and comfort are both sticking out as the key benefit

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Chemicals	CAS Number	Chemical Group	FilaPro Chem Waves™ Lite		FilaPro Chem Crumbs
1 Methoxy 2 Propanol	107-98-2	alcohol	80	minutes	80
1 Propanol	71-23-8	alcohol	480	minutes	480
1,1,1-Trichloroethane	71-55-6	chlorinated hydrocarbons	10	minutes	10
1,4-Dioxane	123-91-1	alicyclic diether	15	minutes	15
2-Ethyl-1-butanol	97-95-0	alcohol	240	minutes	240
2-Hexanol	626-93-7	alcohol	180	minutes	180
2-Propanol	67-63-0	alcohol	128	minutes	128
Acetic Acid 99%*	64-19-7	acid	80*	minutes	73*
Acetone*	67-64-1	keton	12*	minutes	14*
Acrylonitrile	107-13-1	nitrile	240	minutes	240
Aluminum Nitrate-9-Hydrate	7784-27-2	salts	480	minutes	480
Formic Acid 50%	64-18-6	acid	60	minutes	60
Ammonium Hydroxide 25%*	1336-21-6	hydroxide	91*	minutes	127*
Benzaldehyde	100-52-7	aldehyde	60	minutes	60
Benzene	71-43-2	aromatic	20	minutes	20
Gasoline	8006-61-9	aliphatic	120	minutes	120
Benzyl Alcohol	100-51-6	alcohol	120	minutes	120
Cyclohexane	110-82-7	aliphatic	360	minutes	360
Dibutylamine	111-92-2	amine	60	minutes	60
Acetic Acid 90%	64-19-7	acid	80	minutes	80
Ethanol	64-17-5	alcohol	100	minutes	100
Ethyl Acetate*	141-78-6	esters	16*	minutes	18*
Hydrofluoric Acid 37%	7664-39-3	acid	60	minutes	60
Formaldehyde 37%*	50-00-0	aldehyde	480*	minutes	480*
Glutaraldehyde	111-30-8	aldehyde	480	minutes	480
Hydrochloric Acid (37%)	7647-01-0	acid	60	minutes	60
Hydrogen Peroxide 30%*	7722-84-1	peroxide	480*	minutes	480*
Isooctane	540-84-1	aliphatic	480	minutes	480
Methanol (methyl alcohol)*	67-56-1	alcohol	33	minutes	49
n Heptane*	142-82-5	aliphatic	480*	minutes	480*
N Methyl 2 Pyrrolidone	872-50-4	keton	120	minutes	120
Naphtha	64742-49-0	hydrocarbons	60	minutes	60
Soda Lye Saturated		alkalis	480	minutes	480
n Hexane	110-54-3	aliphatic	480	minutes	480
Nitric Acid 65%	7697-37-2	acid	55	minutes	38
Toluene*	108-88-3	aromatic	21*	minutes	24*
Xylol	1330-20-7	aromatic	20	minutes	20

The information in the database is derived from laboratory tests(*) and/or theoretical calculations, based on initial data such as reference chemicals, polymer type, and layer thickness. This foundation enables the derivation of additional permeation data, by always considering the weakest part of the glove. The conducted tests were performed using standard testing methods (permeation test according to EN374-1), which may not reflect real-world application conditions. Due to the lack of detailed information regarding the exact applications in which these products are used, all information should be considered advisory in nature.

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Discover how Filapro Chem Gauntlets are elevating safety and performance in challenging work environments. Follow Bob's journey to see how these gloves are setting new standards.

The Adventures of Bob and His FilaPro Chem Gauntlets

Bob was an average guy working at a chemical factory, handling dangerous chemicals with his trusty Filapro Chem Gauntlets. One Monday morning, he strolled in, slipping his gloves on with a smile. "Good morning, chemicals," he said, ready to get to work.

First up was transferring a batch of cyclohexane from one container to another. No big deal. With his Filapro Chem Gauntlets' chemical resistance, Bob handled the task easily.

Next, he needed to move some heavy, slippery oil drums on the production line. Thanks to the gloves' enhanced grip, Bob easily maneuvered them into place. "Got it," he said as he set the drum securely, ensuring everything stayed clean and compliant.

Around midday, Bob's colleague Jim stopped by. Jim, always skimping on protective gear, looked like he'd been battling rashes. "Bob, what's your secret? My hands are a mess!"

Bob held up his gloves. "Filapro Chem. Dermatest certified. No irritation. These gloves keep my hands in great shape."

Jim was impressed. "I don't know how you do it."

"Good gear makes a difference," Bob replied. "Plus, these have a lower carbon footprint than what you're using. Might want to upgrade."

Later, Bob climbed up a machine to adjust a valve, wiping away dirt and residue as he worked. His gloves showed no signs of wear. "These things really hold up," Bob said, nodding to himself.

When it came time to fine-tune a pressure gauge, Bob didn't even have to take off his gloves. "Great for precision work," he thought, making the adjustments with ease.

By the end of the day, Bob had tackled every task with his Filapro Chem Gauntlets. He walked out of the factory with his head held high, ready for whatever came next.

"Stay protected, stay flexible, stay green," Bob said as he headed home. Little did he know, tomorrow's challenge would involve a clumsy intern and a sulfuric acid spill. But that's a story for another day.

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