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Ouvry press contact

Mr Foucauld PERRODON • Tel. +33 7 72 21 11 96 • perrodon@ouvry.eu

Photo library

Download our pictures: https://www.ouvry.com/en/media/

New Web site: https://www.ouvry.com/en/

Ouvry's catalogue : Ouvry catalogue - CBRN protection systems

Ouvry

24 Av J. Masset • ZA Gorge de Loup • F-69009 Lyon - FRANCE Tel. +33 4 86 11 32 02 • info@ouvry.com



EDITORIAL

Ouvry: 100% Made in France objective to better protect those who protect us.



A textile engineer by training, it was my first experience in the manufacturing of technical fabrics, in the space sector, which convinced me to create a company designing and producing CBRN personal protective equipment (PPE). Twenty years later, our company is recognized as a specialist in high-quality personal body and respiratory protection systems.

In 2021, the acquisition of the company Sulitec, specialist in high temperature protection and insulation, strengthened a range of innovative products and services today intended for all operators

of defense, rescue, security and safety, to those who risk their lives to defend ours.

From 2022, the start of the war in Ukraine, delays and tensions over supplies of raw materials and inflation have been difficulties that our company has managed to overcome. This major crisis, which followed that of the COVID 19 pandemic, once again shows the inestimable added value of a French supply chain like ours.

Since then, in 2024, we have established an industrial joint venture in Ain, near Oyonnax, with a Jura-based industrial partner, dedicated to the manufacturing of butyl gloves and overboots (such as OG05® gloves and OBoots® overboots). This move reflects our commitment to internalizing production and achieving the 100% Made in France objective. As of today, 93% of our products are already made in France, demonstrating our dedication to quality and safety, as well as greater control over the supply chain.

"We have invested in new industrial equipment, including injection molds and metrology tools. Additionally, we have built a strong pillar around individual decontamination, which we see as a natural extension of protection. The rollout of this industrial phase accelerates our ability to establish OUVRY as a global leader in individual protection for all those—both civilians and military personnel—who protect our lives.

As a true dual-purpose company, OUVRY has consistently diversified its focus to serve both military and civilian needs. In this regard, the major crises of recent years have highlighted the invaluable added value of a French supply chain like ours.

Internationally, the OUVRY Group has expanded, notably with the opening of a Belgian subsidiary in Brussels at the end of 2022. Our presence in Lyon (France), our engagement in the EDEN cluster—which brings together SMEs in defense and security—as well as our participation in GICAT and other professional organizations, place us at the heart of a dynamic industrial and technological ecosystem. We are also part of a growing European hub for geostrategic security analysis.

Now more than ever since its creation, OUVRY asserts its status as a French industrial group and expert in the CBRNe field, recognized as a key player in Europe and worldwide innovative and creative, resilient and reliable, eco-responsible and cyber-responsible.

Ludovic Ouvry, Chairman



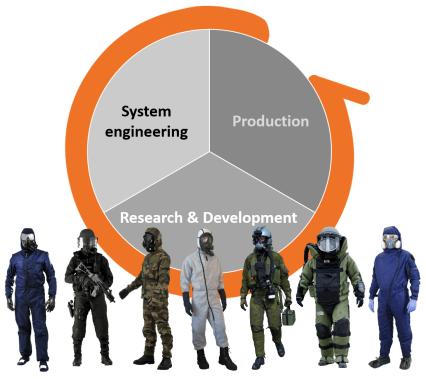


1. DISCOVER THE COMPANY

Brand new CBRN products, developed and manufactured by Ouvry



Created in 2003, Ouvry specializes in CBRN personal protection systems and is located in LYON. The product portfolio covers both body and respiratory protection, as well as innovative products intended for a wide range of operators: soldiers and law enforcement staff, firefighters and rescue operators, first-responders, the public security, civil defence, ministry of health, industry, critical infrastructures and public transportation.



After designing and manufacturing the new generation of CBRN protective clothing post-Gulf War of the 90s, the CBRN FELIN system for the French Army, Ouvry continued its innovative and eco-responsible industrial approach with filtering CBRN protective suits Polycombi®, TFI®, OC50® and OPC50® breathing mask. This choice marked a shift in the technological and capability approach of the Ouvry offer in terms of CBRN personal protection equipment (PPE).

Ouvry has thus, through this system approach, brought to its offer:

- 1. Capability completeness by developing fully integrated, multi-domain and dual next-generation body protection systems.
- 2. Amplitude through the possibility of developing it and strengthening it through an incremental approach and anticipation.
- 3. Sustainability by providing a maintenance service offer and training in use and maintenance.
- 4. Eco-responsible (eco-design and product's life cycle) and energy efficient (regional or national approach to ensure independence in production and supply).

Ouvry designs and manufactures, in France, products that meet ever-changing needs. "Doing differently" partly explains the success of this company in less than twenty years. And how to differentiate? Being a creator rather than a follower, integrating innovative components designed with the partners of its "ecosystem", managing with heart by valuing each talent held or revealed and each skill acquired within the company... This is part of the DNA open.



It is not insignificant that Ouvry has chosen Lyon, a historic city of silk, today rich in companies creating innovative textiles, to settle and grow. Ouvry took place within a beautiful ensemble typical of 20th century industrial architecture, located in the Vaise district, in a former Rhodia cellulose triacetate spinning mill.

This choice is all the more relevant since in the coming year, the Auvergne-Rhône-Alpes region, the Lyon metropolitan area and the city of Lyon will welcome in their areas of responsibility a whole set of organizations and university, research, industries, which are active and involved in the field of safety and security.

The security campus, the development of which is desired by the Auvergne-Rhône-Alpes region, by the Lyon metropolitan area, by the Lyon's chamber of business and industry, will federate reflection and analysis, consultation and coherence, synthesis and communication in the field quite strategic, at a time when Europe must find its best and fair level of involvement, decision-making and arbitration and above all efficiency. The EDEN cluster will be one of the main creators and facilitators.



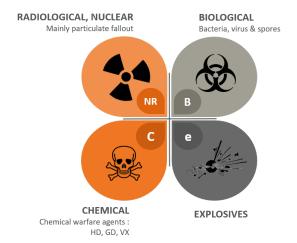
A few benchmarks...



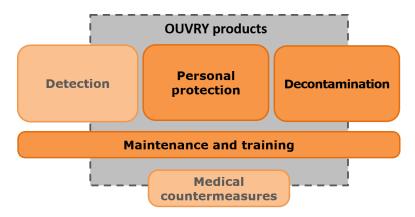


Ouvry, core business

CBRNe personal protective systems:



Specialized in CBRN protective systems design and manufacturing, as well as decontamination solutions, for both military and civilian applications, OUVRY covers partly the 3 pillars of the NATO CBRN triptych.



French domestic references

• Ministère des Armées – Direction Générale de l'Armement (DGA) et la Direction des approvisionnements du service du santé des armées (DAPSA)





Ministry of interior: Police, Gendarmerie



• Security services of public infrastructures and transports (RATP, SNCF...), EDF FARN (Force d'Action Rapide Nucléaire)









Industrial operators working in chemically hazardous environments



Firefighters, civil security



Ministry of health: SAMU, CHU, SMUR, Santé Publique France



European projects: European defense Agency, HORIZON EUROPE



In 2021, OUVRY obtained the label "used by the French Army" for its CBRN suit EPIFOS, OPPS and for the SIMKIT



The DGS establishes a strategic stock and trusts Ouvry

The French Directorate General of Health (DGS) is establishing a strategic stock of CBRN products in 2023. This operation is financed by the European civil protection mechanism RescEU in conjunction with the European health authority, HERA. Ouvry is part of the group of companies selected as suppliers of CBRN protection and decontamination systems.







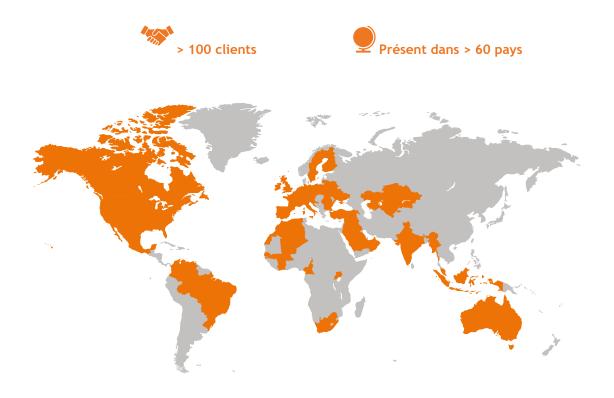
Partners and consortium

Ludovic Ouvry is one of the founders of EDEN Cluster, he became its president since December 2020. Ouvry is also member of: Cercle de l'Arbalète, Club RAPID by the DGA (Armaments general delegation of the French Army), GICAT, ICI - International CBRNe Institute (Charleroi), French Fab, Nuclear Valley, SAFE Cluster and the SFMC (French society of disaster medicine).

Export OUVRY

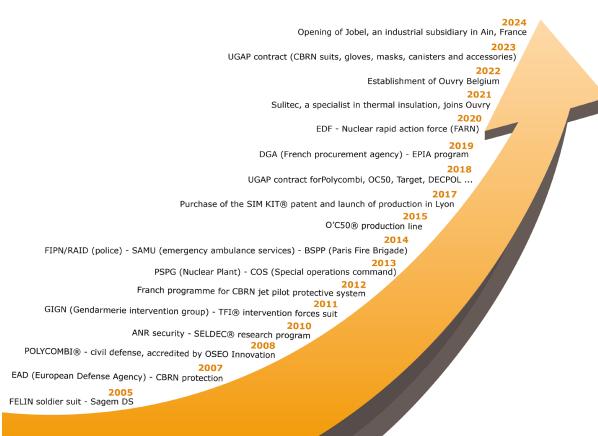
The company is present in more than 44 countries around the world. Four points may explain this international recognition:

- Strengthness, durability in complete cost makes our products high-level quality and very competitiveness
- Innovation let the Ouvry's equipments answer to the necessities of the professionals the most exposed.
- Our equipments destined to the law forces and to the army forces are "combat proven" and four of us obtained the DGA label "used by the French army".
- A network of 20 partners, CBRN specialists constituted threw the world for insure to our customers a sustainability of proximity and services of maintenance.





A continuous growth



Since 2015, Ouvry strengthened its position of CBRN new generation equipment leader enlarging the existing textile CBRN PPEs portfolio with respiratory products in order to commercialize a whole system especially with the investment in a new generation flexible mask manufacturing facility which is now in order.

Ouvry now has an industrial capacity for the design and manufacture of CBRN personal protection systems comprising suits, gloves, over boots, under-gloves and underwear on the one hand, and perfectly compatible respiratory masks equipped with a hydration, the possibility of voice amplification and radio connection, and individual means of immediate or emergency decontamination. The subsystems are used by the French armies.

All of this production is framed in an approach that takes into consideration eco-design, taking into account the life cycle of products and the elimination of waste, as well as an energy efficient and eco-responsible approach.

More than 180,000 suits manufactured for Civil security and health, 22,000 CBRN FELIN® equipment, more than 30,000 DECPOL®, and more than 15,000 OC50 \otimes and OPC50 \otimes masks manufactured in Lyon since 2016, have been distributed in France and internationally.

For the armies and for the intervention forces of the Ministry of the Interior and customs, the new generation Ouvry equipment marks a vital capacity enhancement.

For the areas of emergency and intervention, for all matters relating to civil and public security, for health and the hospital sector, for biological and bacteriological and even nuclear research, the use of equipment and Ouvry systems is appreciated both in the event of a health crisis, industrial disaster and for more frequent use of preventive personal protection for industry, agriculture and critical infrastructure.



In 2020, during the Covid-19 health crisis, Ouvry was remarkably responsive, developing, at the request of the French direction of the atomic energy (CEA) and Michelin, an innovative mask intended to protect the operators most exposed to the risks of contamination. Thanks to the business continuity and resumption measures that it had planned in these PCAs and PRAs, its activities have never ceased and above all, the company has been able to develop the design and production of a new product, the OCOV® mask, without calling into question its other commitments or its current contracts, which was the first challenge to be met during the pandemic.



This OCOV® project required very significant equity investments in the purchase of production moulds, the securing of raw materials, numerous tests and trials because such equipment cannot be sold without precautions or quality insurance.

On this occasion, Ouvry consolidated its skills in the design and manufacture of respiratory masks, and developed new skills in the injection and moulding of flexible plastic materials, butyl in particular. The OBOOT® over boots, the OG05® glove which will give France and the BITD a 100% French source of supply.

PROCESS & ORGANISATION

Ouvry supply chain: innovation and quality to meet operational requirements

From the origin, Ouvry has constantly updated its process and manufacturing tools, controlling the entire supply chain in order to build a reactive, resilient and robust industrial organization.

Body personal protective equipment, controlled know-how and resilient production, mainly french

Ouvry controls its supply chain which is mainly French, with an industrial tool able to meet both small and middle size productions, built in a resilient way:

- Weaving, dyeing and finishing activities are located in Lyon region.
- Filter materials based on a unique European source, and manufactured with very large capacity machines. Ouvry develops a new generation of filter material, MFE®.
- Ouvry manufactures components with specific properties.
- Tailoring and final assembly is performed either with a network of commission finishers or by Ouvry directly.



Ouvry controls all the industrial organization of a textile company









Quality and Corporate Social Responsibility: internal measures, a living ecosystem outside

Ouvry was certified ISO 9001: 2015 in 2019, attesting to the performance of its quality management system. With the establishment of an integrated quality management system, actively supported by both its employees and its suppliers, Ouvry implements test and control plans that are both formalized and unique, audits regular reviews of factories and production workshops, systematic reviews of first articles and qualitative acceptance tests at the end of production.

Since then, the company has pursued its performance improvement policy and increased its environmental commitment. In October 2020, it received ISO 14001: 2015 certification.

The very object of Ouvry's activity, protection against CBRN threats and risks, leads the company's staff, collectively and individually, to take a close interest in subjects relating not only to quality, but more broadly to environmental protection and sustainable development. Its products are reusable and recyclable equipment that turns its back on the throwaway culture (washable coveralls, OCOV® mask that can be used more than 100 times, etc.) and are still the result of long research and development efforts. The company registers its industrial and economic development taking into account the energy transition.

Beyond strictly environmental concerns, the company invests more broadly in a CSR approach (corporate social responsibility) which is reflected in numerous commitments.

Internally, the company has taken measures for social dialogue, in terms of gender equality and recruitment with a view to equal balance, the fight against inequalities and discrimination, the prevention and fight against corruption and organized crime. Internal procedures concerning occupational health and safety, social dialogue and training are in place.

Ouvry also ensures that its suppliers and service providers are located in France, most of them being located in Auvergne-Rhône-Alpes.

Externally, Ouvry has multiplied collaborations with the University, in particular the University Claude Bernard Lyon 1, as well as with professional associations and NGOs dedicated to research and innovation in the fields of security, safety and health.

Furthermore, the year 2023 is already marked by the signing of the "ProMilès Manifesto" by the company which aims to promote the civic engagement of its employees, particularly in the area of the army-nation link. Thus, as part of the EDEN cluster missions, Ouvry is a partner of the National Guard, signatory of a charter intended to promote this force made



up of operational reservists who can contribute to the defense and security of the population and the territory. Personally, Ludovic Ouvry is a citizen reservist of the Air and Space Force. Two OUVRY employees are also reservists.

The company is attentive to other societal commitments, as evidenced by its support for associations, "La Chimère" (1er RPIMa, French special forces located in Bayonne) and the "Amicale des Démineurs de France" (Versailles).

R&D: High internal capabilities and a large academic network

Ouvry has developed strong internal R&D capabilities and sustained collaborations with an international scientific and technological ecosystem.

With its experience in complex programs (ANR, EDA, Horizon Europe) Ouvry invests in research projects applied to the fields of body and respiratory protection as well as decontamination. They relate to:

Technical and functionalized textiles (fire, shock, stealth, self-decontamination, etc.);

Human factors, such as ergonomics, thermophysiology and sensory perceptions;

The applicability of smart technologies to personal CBRN body and respiratory protection equipment;

Immediate and operational decontamination technologies for chemical, biological or radiological agents.

Its outcome is reflected in the marketing of new OUVRY equipment designed and manufactured in France such as OG05 gloves, DECPOL Abs®, DECPOL Rad® decontamination devices, EVACOPS® transport bags, etc.

Since its creation, the company has capitalized on strong technical monitoring (materials and processes) and focused on mature technological bricks but also on up-to-date knowledge of the state of the global CBRN art. It is an important base of the intangible wealth of society thanks to investment and active participation in seminars, brokerage events, etc. of our network of scientific partners, competitiveness poles and national and international clusters.



The OUVRY new products development cycle















Technical teams are specialized in many domains such as materials, technical textiles, chemistry, microbiology, ergonomics, plastics, design, standard activities ...

These competencies are mainly distributed between: department, technical department, logistics and quality control, as well as domestic or export sales ... The R&D staff is supported by post doc, scientific advisor and university professors.





This results in four recruitments in 2021 and the establishment of know-ledge management aimed at better targeting technical-industrial needs and evolution of skills over time, thus allowing loyalty and development within the company. and the Ouvry group.



2. THREE COMPLEMENTARY FIELDS **OF ACTIVITY**

Large wardrobe face to CBRN military and civilian risks for CBRN risks for the personals of defence, industry and healthiness

Medical - Rescue







Defence & Law enforcement

Defence





Ouvry has been innovating for more than 15 years alongside Special Forces and all the Defence stakeholders. CBRN equipment with a low logistic footprint, which offers the best protection, comfort and robustness in all environmental conditions, has established its reputation.

French references:

- French MoD The French defence procurement agency
- National Gendarmerie (GIGN, PSPG ...)
- Ouvry participated to innovated projects with AED (European Defence Agency).
- "Used by the French army" label for the EPYFOS CBRN combat suit.

Law forces







"A protective system that allows us to serve quickly and for a long time". Like their colleagues of the armed forces, law enforcement operators appreciate mechanical strength, ergonomics, fast and intuitive dressing, and even more the optimal protection conferred by the OUVRY PPEs. "Equipment and training products allow us to better understand our missions and better prepare ourselves," testify the users.

French References:

- The Ministry of Interior
 - The Civil Security Division (DGSCGC)
 - Police (RAID, BRI)



Health & Rescue





OUVRY equipment is particularly adapted to the needs of health professionals evolving in a health crisis situation. Facilitating rapid care of victims waiting for decontamination showers, this equipment saves lives. "The rise of the crisis management system is easier, with less rotation, fewer outfits and fewer staff," says a user.

French References:

- The Ministry of Health: SAMU, CHU, SMUR
- The Departmental Fire and Emergency Services (SDIS): firefighters
- UGAP (the French purchase public office)

Safety and industry

Safety Security - Critical infrastructures





The OUVRY protective equipment provides a protective system specially adapted against a wide spectrum of threats, including for nuclear power plants (liquid or vapor chemicals, radioactive particles, asbestos, liquids and biological particles, etc.). With an intuitive and powerful material, adapted even to non-specialist staff, it is possible for rescue and assistance teams to intervene faster. Moreover, the interoperability between the different actors is guaranteed.

French references:

- Security services of critical infrastructure protection, Public transports (RATP, SCNF, EDF...)
- **Private Security Services**



Industry





PolyIndus® suit has been developed specifically for management activities of biological and chemical toxics, for decontamination and treatment of contaminated waste. PolyIndus® allows to answer to operators' unmet needs (traditional PPEs do not protect enough, are to warm and do not allows long time work). PolyIndus® is particularly appropriate to:

- Transport, handing, emptying
- Sampling
- Maintenance and cleaning
- Storage, waste collection and treatment.

« I am less hot in this suit, I do not have any compression mark on my face, and I do not smell sulphur when I come back home », testify the operational staff wearing OUVRY suits. Doing a long job, even in confined and hot spaces, is now possible.

Our clients observe that their construction sites grow up faster and staffs work longer, with less switch constraints. Finally, thanks to this 90 uses, there are less destroy suits, so less DASRI wastes, so we reduce the environmental impact.

References:

• Industry operators advances in hostile chemical area







3. CBRN PRODUCTS & **SERVICES**

How Ouvry meets defence, security and safety requirements



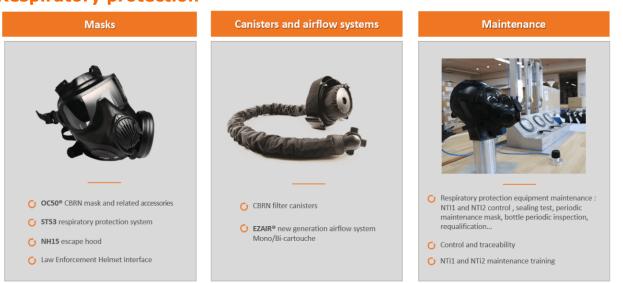
A complete offer in terms of products and markets

Our mission: define with our clients the most adapted CBRN protection system for their environments and constraints. That's why Ouvry developed a large wardrobe for extremes situations, for all CBRN risks, adapted to military or civilians needs.

A large portfolio for individual CBRN protection



Respiratory protection



Development, certification and fabrication of OC50®, protection system easily adaptable, ergonomic and reliable.



Decontamination: innovative, simple and safe pathways





Medical transport







Services and support

Training

« Live Agent Test », training on risks and equipment use, train of trainee's sessions, expert and tutor training, specific training of operators on Ouvry's equipment and systems and maintenance training.

Ouvry has a training official homologation.





Training tools

- SIM KIT®
- PPE (personal protective equipment) adapted to training and tutoring, educational media and help (posters...)

Maintenance & services

- Maintenance and repair of CBRN masks, annual controls...
- Technical documentation
- Buffer stock (POLYCOMBI®, O'CPU®)
- Waste repurposing procedure support...



INNOVATIONS

Personal protective systems, respiratory protection and immediate decontamination



CBRN protective systems (suits, gloves, masks ...) used by the most exposed operators

Ouvry equipment and systems of body protection, respiratory protection or decontamination benefit from peculiar efforts made on ergonomics and user comfort. The filtering materials we use allow air exchange and water vapor evacuation. The protection of the user is increased while the physiological burden of our CBRN is significantly decreased. These characteristics considerably improve the operators' work conditions.

These are all the reasons why our products equip army, law enforcement (RAID, GIGN, BRI ...) and first responders (Paris fire brigade, Marseille marine fire fighters...) and critical infrastructures (nuclear plants, RATP Paris subway ...).

Selected for the FELIN (Infantry with Integrated Equipment and Connections) program, a leading supplier to Sagem DS, the company has to date manufactured more than 22,000 FELIN NBC protection subsystems and more than 150,000 Polycombi® CBRN suits for the civilian and law enforcement segments. Recently, the CBRN EPIFOS combat outfit obtained the UAF label ("Used by the French armies").



CBRN respiratory protection: a new challenge

O'C50®, adapted to Firefighters, military and civilian operators

O'C50® is manufactured by Ouvry in France and was developed based on research and innovations carried out by listening to the users and operators. This mask equips firefiahters and military, security intervention public, private or civil operators (RATP, SAMU...) in France and several other countries. More than 4000 masks already are operational.



In order to meet the challenging requirements, Ouvry manufactures components with its partners and subcontractors, and then assembles the final product with quality controls at every step before shipment. The company also provides periodical maintenance and revisions.

CFO® CBR cartridges: a very broad spectrum to better protect respiratory pathways against a maximum range of threats

In 2024, Ouvry is launching its new range of filters, starting with the CFO® CBR, a large-spectrum model. Lightweight and durable, it replaces up to three cartridges by providing protection against a wide range of radiological, biological, and chemical substances (A2B2E2K2 Hg SX P3 REACTOR NBC protection). Additionally, when kept in its original packaging, it has a shelf life of up to 20 years after manufacturing, offering significant cost savings for buyers.



Also noteworthy is the launch of the CFO® LACRY cartridge, specifically designed to protect against tear gas for law enforcement personnel. As always, Ouvry offers training versions of its products to enable realistic training conditions. The new CFO® TRAINING cartridge replicates the same characteristics as the CFO® CBR (respiratory resistance, weight, etc.) while being washable and reusable for life.

Innovate in emergency decontamination to avoid secondary propagation effects

The DECPOL ABS® decontamination swipe

The DECPOL ABS® wipe, a CBRN emergency decontamination device, is the natural extension of CBRN personal protection. It was developed from 2016 as part of a RAPID system and then an Astrid Maturation system of the DGA (General Directorate of Armaments). It is the culmination of exchanges between the internal research teams at Ouvry, the Institute of Pharmaceutical and Biological Sciences of Claude Bernard Lyon 1 University and the services of the CEA (Atomic Energy and Alternative Energies Commission) from Grenoble.



The DECPOL ABS® wipe combines several hyper-absorbent and nonmaterials, capable abrasive decontaminating a wide spectrum of contaminants by transfer, thus reducing the risks of crosscontamination by internal storage of the toxicant.

It is intended to be used by safety professionals, such as firefighters, as well as industries, laboratories or critical infrastructures which may be confronted with chemical biological contamination.



EPIFOS: the CBRN combat outfit for special forces

The EPIFOS combat outfit is the outfit par excellence for special forces facing CBRN Following threats. NATO recommendations, it protects for 24 hours against chemical warfare agents in liquid, vapor or aerosol form.



TARGET 2®, The new gloves of Army and law enforcement.



"Perfectly fitting with Ouvry combat gear, including the TFI®, specifically designed for security forces, the new TARGET 2® filter gloves are an improved version of the TAR-GET® gloves (see the Ouvry 2.0 product development cycle on page 15).

Developed based on user feedback, Ouvry has refined its filtering glove to better meet operational needs. Enhanced with metacarpal reinforcements, offering a more tailored fit, and now fully compatible touchscreens, it provides real added value for operators. Like the first version, these

gloves protect against liquid, vapor, and aerosol forms of chemical warfare agents for up to 24 hours."



PRESS KIT

2025

CUVRY

CBRN Protective Systems

"They protect us, We protect them"

Ouvry Press Contact
Mr. Foucauld PERRODON

Phone.: +33(0)7 72 21 11 96

Email: perrodon@ouvry.eu

