

ORCA

PENNEL & FLIPO

INNOVATIVE MATERIALS FOR INNOVATIVE SOLUTIONS

SAFETY

TRANSPORT

ENERGY

MARINE

INDUSTRY

EXTRICATION

DEFENSE

BOOM

TANK



orca.eu

MARINE



Abrasion resistance



Hydrocarbons resistance



Hydrolysis resistance



Extreme Temperature resistance



UV resistance



Weather conditions resistance

Discover all our brands related to the Marine solution:

ORCA®

ORCA® Tech

ORCA® 3D

ORCA® Pro

ORCA® Sheets

ORCATHANE®

ORCA® fabrics offer exceptional resistance to UV, abrasion, and extreme temperatures, making them ideal for RIBs and inflatables.

Available in over 30 colors and 6 finishes, they combine performance and aesthetics. We continue to innovate to develop new solutions.

We cover a wide range of products:

- LEISURE RIBS
- PROFESSIONAL BOATS
- WHITE WATER RAFT
- FOLDING KAYAKS
- FLOATING PLATFORMS
- INFLATABLE FENDERS OR FLOORS
- HOVERCRAFT
- FLEXIBLE FUEL OR WATER TANKS



Order now : orcaretail.com



INDUSTRY



Abrasion resistance



Hydrocarbons resistance



Tear resistance



Extreme Temperature resistance



UV resistance



Weather conditions resistance

Discover all our brands related to the Industry solution:

ORCA® 3D

ORCA® Tech

ORCA® Cord

ORCA® Sheets

PLASTITANE®

ORCA®

We are able to develop specific coated textiles, meeting your precise needs, using a wide range of polymers: TPU (polyurethane), CSM (hypalon), CR (neoprene), NR (natural rubber), NBR (nitrile butadiene), NPVC (nitrile PVC), BR (polybutadiene), SBR (styrene butadiene), EPDM, AEM (Vamac), VMQ (silicone), IIR (butyl), FKM (Viton)... Thanks to our expertise, we provide durable solutions that meet the industry's most stringent requirements.

We cover a wide range of products:

- MEMBRANE
- WATER TREATMENT
- DOCK SHELTER
- MACHINE PROTECTION
- EXPANSION JOINT
- LINER / ANTISTATIC
- COVER PROTECTIVE INFRA-RED / STEALTH



EXTRICATION



Abrasion resistance



Fuel resistance



Elongation resistance



Wear resistance



Waterproof fabric



Extreme Temperature resistance

Discover all our brands related to the Extrication solution:

ORCA® 3D

ORCA® Tech

ORCA® Cord

ORCA® Sheets

PLASTITANE®

ORCA®

We are able to develop custom-coated textiles that meet your requirements for burst pressure, abrasion resistance, or ease of processing (hardened or non-hardened fabrics with high bonding properties). We offer reinforced fabrics (PES, PA, Kevlar, viscose) and use different structures (single-layer, multi-layer, dropstitch, ropes) for optimal performance in demanding conditions.

We cover a wide range of products:

- AIRCRAFT LIFTING BAG
- LIFTING BAG
- EXPANSION JOINT
- PIPE-PLUG
- PACKER
- EXCAVATION TRENCH
- AIR SPRING



SAFETY



Abrasion resistance



Hydrolysis resistance



Ozone resistance



Waterproof fabric



Puncture resistance



UV resistance

Discover all our brands related to the Safety solution:

ORCA® Safety

ORCA® Protect

ORCA® 3D

ORCA® Tank

Our technical textiles are specially developed to ensure maximum protection in the most demanding environments.

Resistant to flames, chemicals, extreme temperatures, and mechanical stress, our ORCA® fabrics provide optimal safety for critical applications.

We cover a wide range of products:

- LIFERAFT
- INFLATABLE SHELTER
- RESCUE AIR TRACK
- STRETCHER
- LIFTING BAG
- OIL BARGE
- PERSONAL PROTECTION EQUIPMENT
- RESCUE RIB
- EVACUATION SLIDE



TRANSPORT



Abrasion resistance



Adhesion resistance



Fuel resistance



Elongation resistance



Extreme Temperature resistance



UV resistance

Discover all our brands related to the Transport solution:

ORCA® T

ORCA® Tech

ORCA® Cord

Our technical textiles are specially developed to meet all international fire and smoke resistance requirements.

We develop customized solutions that ensure optimal protection in the most demanding transport environments.

We cover a wide range of products:

- GANGWAY
- AIR SPRING
- BUSES
- SUBWAYS
- RAILWAYS
- TRAMWAYS
- AIRPORT GATEWAYS



ENERGY



Abrasion resistance



Fuel resistance



Fire resistance



Hydrolysis resistance



Extreme Temperature resistance



UV resistance

Discover all our brands related to the Energy solution:

ORCA® Tech

ORCA® Cord

ORCA® Tank

ORCA® Sheets

Our technical textiles are used in critical sectors such as offshore Oil & Gas, subsea systems, nuclear power plants, wind turbines, and solar farms.

Designed to withstand harsh conditions (corrosion, extreme temperatures, and weather), our fabrics ensure performance and durability in the most demanding energy applications.

We cover a wide range of products:

- WIND MILL GENERATOR PROTECTION
- SOLAR PANEL PROTECTION
- PROTECTIVE FILM
- PIPE-PLUG
- OCEAN THERMAL ENERGY CONVERSION



DEFENSE



Abrasion resistance



Fuel resistance



Wear resistance



Fire resistance



Extreme Temperature resistance



UV resistance

Discover all our brands related to the Defense solution:

ORCA®

ORCA® Tech

ORCA® 3D

ORCA® Sheets

ORCATHANE®

Designed to withstand the most extreme conditions, our ORCA® fabrics provide optimal protection against the weather, abrasion, and mechanical risks.

With durable and innovative materials, we guarantee robust solutions for military equipment, including vehicles, tents, protective gear, and tactical clothing.

Our expertise in developing technical textiles ensures reliable and durable performance in the most demanding environments.

We cover a wide range of products:

- INFRA-RED / STEALTH COVER
- ANTI-CRASH FUEL CELL
- FLEXIBLE / TOWABLE TANK
- MILITARY JACKET MOLLE
- ANTI-INTRUSION BOOM
- HOVERCRAFT
- RIB
- FLOODING KAYAK
- WATER TIGHT BAG
- BOAT BOTTOM



BOOM



Abrasion resistance



Adhesion resistance



Fuel resistance



Hydrolysis resistance



Low Temperature resistance



Tear resistance

Discover all our brands related to the Boom solution:

ORCA® Boom

ORCA® Tech

ORCA® Pro

ORCATHANE®

ORCA® Tube-in-Line

We offer a wide range of solutions for oil recovery, as well as for other environmental applications, including robust CR-coated fabrics for deep-sea containment devices and TPU-coated fabrics for lighter or inflatable solutions.

Our ORCA® Boom fabrics are specially formulated to provide optimal resistance to hydrocarbons, UV, and abrasion. In addition, Pennel & Flipo has patented an innovative solution for a semi-finished inflatable device: the Tube-in-Line.

We cover a wide range of products:

- BOOM
- TUBE-IN-LINE
- OIL BARGE



TANK



Abrasion resistance



Fuel resistance



Wear resistance



Fire resistance



Extreme Temperature resistance



UV resistance

Discover all our brands related to the Tank solution:

ORCA® Tank

ORCA® Tech

ORCA® Pro

ORCA® Sheets

The ORCA Tank fabrics offer solutions for the storage or transport of hydrocarbons, chemicals, water, or various agricultural liquids. Made from NBR, NPVC, or TPU, they are used to manufacture flexible tanks, fuel cells, and floating roof seals.

Available in hardened, non-hardened, or weldable versions, these fabrics meet various technical requirements for the military and industrial sectors (contamination, permeability, anti-collision, FIA...).

We also offer our Nauta range of flexible tanks (from 20L to 2000L).

We cover a wide range of products:

- FLEXIBLE OIL STORAGE TANK
- ANTI-CRASH FUEL CELL
- TANK
- FLOATING ROOF SEAL
- OIL BARGE
- SUBSEA STORAGE
- FLEXIBLE FUEL OR WATER TANK



ORCA

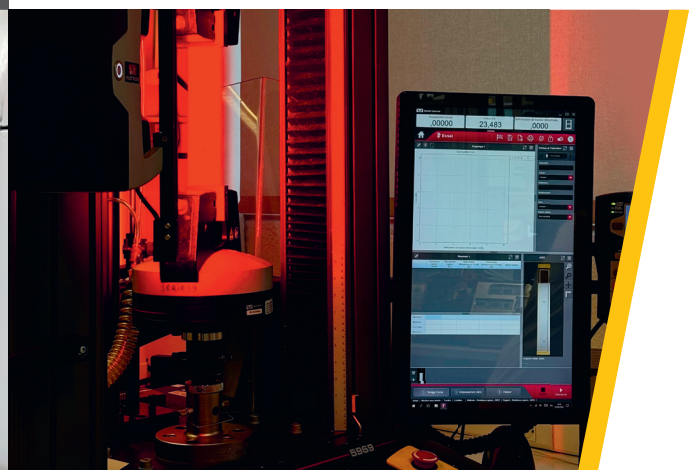
PENNEL & FLIPO

Our site spans 40,000 m², including 13,800 m² of state-of-the-art production areas and 1,200 m² of modern office space. With an annual production capacity of more than 1,000,000 meters of premium fabric, reaching global quality standards.

Sustainability is at the core of our operations, powered by 2,500 solar panels that significantly reduce our carbon footprint.



Our in-house R&D laboratory drives continuous innovation, **conducting over 400 comprehensive studies each year** to enhance performance, quality, and product development.



Certifications



ORCA

PENNEL & FLIPO



America's

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