

Orca Triathlon

EN

Apex Flex



Whitepaper

orca



Orca Triathlon

Apex Flex

The Apex Flex wetsuit is the most flexible of the entire Orca range. It is designed for the most technical swimmers, those who benefit from more flexibility and do not need extra buoyancy. The construction of the short, inverted zipper allows for a more elastic design. This, in combination with the most flexible materials on the market with the most hydrodynamic properties, make it the fastest wetsuit for the best open water swimmers.

Apex Flex

WOMEN ↓

MN52
XS, S, M, L, XL

Blue Flex: 43 / S: S
8434446089466



Flexibility



Buoyancy



Hydrodynamics

Inside



YAMAMOTO



1. 44+



2. 40PF+



3. 40FS



4. 0.88 FREE



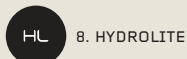
5. 39+



6. 38+



7. CORE LATERAL STABILIZER



8. HYDROLITE



9. ULTIMATE SEAL COLLAR



10. YKK R



11. V FIT

Apex Flex

MEN ↓

MN12
4, 5, 6, 7, MT, 8, 9, 10, 11

Blue Flex: 43 / S: 7
8434446088216



Flexibility



Buoyancy

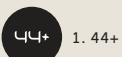


Hydrodynamics

Inside



YAMAMOTO



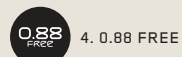
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Technology



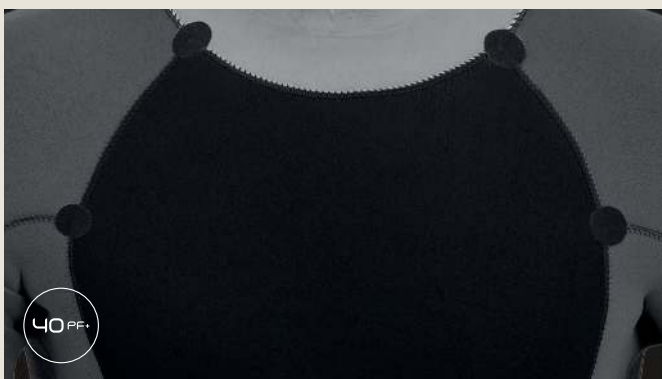
44+

Orca's high-end range combines exclusive Yamamoto 44 technology with high-elasticity Infinity Skin 2 lining to provide maximum freedom of movement to the shoulders. For improved hydrodynamics, a Nano Ice SCS coating is used, which reduces water resistance for increased speed. The inner lining incorporates bamboo fibers for more flexibility with each stroke, in addition to reducing odor and preventing the growth of bacteria. This combination provides total flexibility in the shoulders of high-end Orca wetsuits. The material requires 90% less force to stretch than conventional neoprene.



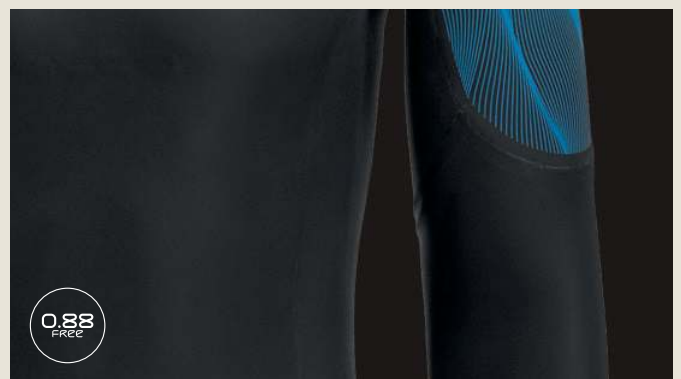
40 FS

For maximum freedom of movement, elasticity and flexibility, Orca's high-end range combines Yamamoto 40 technology with Infinity Skin 2 lining and Smoothskin surface finish. This composition provides the open water swimmer with complete range of motion in the shoulder area. The material requires 72% less force to stretch than any other conventional neoprene. Bamboo fibers in the inner lining provide flexibility with each stroke, in addition to reducing odor and preventing the growth of bacteria.



40 PF+

The Power-fit compressive lining, along with Orca's high-end Yamamoto 40 technology, provides a perfect fit in the torso area, ensuring that water will not flow through the wetsuit. Nano Ice SCS coating improves hydrodynamics, reducing water resistance and allowing the open water swimmer to reach top speed with each stroke.



0.88 FREE

0.88 Free technology was developed with Yamamoto exclusively for Orca, with the goal of creating the most elastic material on the market today. The finest neoprene on the market is 0.5-mm thick and combines the best lining with a titanium coating for better thermal insulation. This revolutionary material is placed in the arms of the suit, providing needed compression to your arm muscles as well as maximum flexibility for bending your elbow with each swim stroke. A step forward in technology.



Made to last

This product's unique design is based on the best available materials in the market.

Orca works closely with Yamamoto Corporation to develop new materials for their wetsuits. The exclusive Orca 0.88 Free and Yamamoto 44 materials are proof of this. Orca is also the only brand that is certified to make all our suits using exclusive Yamamoto material, ensuring the highest quality in all products.

Currently, the most sustainable raw material for obtaining neoprene is limestone, compared to other much more polluting processes in which lower quality neoprene is obtained from oil. The process of obtaining neoprene from limestone was developed in the 60s by the Yamamoto company and it has been perfected over time to arrive at the current process, where the best quality neoprene is obtained. Not only do the characteristics of this neoprene contribute to its better performance, but they also ensure its maximum durability.

Other very important materials in our products that may go unnoticed are the materials used for packaging. To minimize the impact of these, as of 2020, our entire range of wetsuits and accessories uses recycled cardboard packaging instead of single-use plastic.



Care to last

Wetsuit Cleaning:

Neoprene can be damaged by excess salt or other disinfectants such as chlorine if used in swimming pools. It is important to wash the wetsuit with plenty of water. A small amount of neutral pH soap can be used and then rinsed out. Once clean, make sure it dries so that it doesn't retain moisture, outside or in a ventilated indoor space without direct exposure to sunlight as this can damage the materials.

Storage:

Storing the wetsuit properly keeps the materials and seams from being folded and stressed over long periods of time. It also prevents the appearance of wrinkles on the material which can affect both the wetsuit's durability and its aesthetics. The best way to store the neoprene is to hang it from its middle, so that the most sensitive areas such as the shoulders and arms do not have any kind of tension on them. For this model you can use a hanger if you can't hang it in half, as long as it is wide enough for the wetsuit not to be stretched in the shoulder and neck area.

To ensure the maximum durability of your wetsuit, it is recommended to pay special attention to three aspects of care; cleaning, storage and transport.

Travel:

Although traveling time takes up such a small amount of a wetsuit's useful life, it is important to keep in mind that each time it is worn, it has to be transported. Poor transportation, even if it is for short periods of time, can shorten the life of your wetsuit.

Compressing or wrinkling the wetsuit during transport is not recommended, especially in the seam areas. It is also advisable to rinse it off with fresh water before transporting it after it has been used. Be careful that the wetsuit is not stored in high temperatures (such as in a hot car), as this can speed up its degradation.

The elasticity of the top of this wetsuit allows the sizing in this area to adapt well to different bodies. However, the bottom sizing must be adjusted due to the thickness of the panels. So, if the size guide suggests going up a size, plan on weight affecting the sizing more over chest and height measurements.

orca

Orca Headquarters

Orbea S. Coop.
Pol. Ind. Goitondo
48269 Mallabia, Bizkaia
Spain

Orca USA

4820 63rd St
Suite 104
Boulder, CO 80301
United States of America

Orca France

Technopole Izarbel
416, allée Antoine d'Abbadie
64210 Bidart
France



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