

# PANEL CONSTRUCTION

The Marlin Triathlon suit cuts through water with exceptional ease thanks to its diverse hydrodynamic, Super Composite Skin (SCS) construction. Every aspect of the suit has been strategically designed to ensure minimal resistance in the water and to achieve the perfect balance of flexibility, thermal insulation, and buoyancy.

Yamamoto #39 & #40 with SCS coating is used across the entire wetsuit. Yamamoto #40 neoprene is used throughout the entire arm, shoulder, back panel and ankle sections. It features a strong skin surface and flexibility and is the most stretchable neoprene on the market.

The torso section (from the waist up) is lined with thermal Ti-Alpha, a titanium layer between the outer neoprene and the lining. This reflects up to 40% of generated body heat back towards the body rather than it disappearing instantly to the water. In addition, the calf panel also benefits from a Ti-Alpha layer to reduce calf cramping.

The core panel has been designed to be very buoyant. This entire panel uses 5.0mm Aerodome neoprene Yamamoto SCS neoprene which is 20-30% more buoyant than other neoprene materials. It is used from the knee, on the entire front thigh and wraps around the hips, buttocks, and lower abdomen. This ensures the swimmers hips and legs are raised and promotes hip roll.

The rest of the suit uses #39 grade neoprene which is lightweight and soft. Overall, the wetsuit panels promote a more efficient swim-roll dynamic technique rather than the flat swimming position.

## What is SCS?

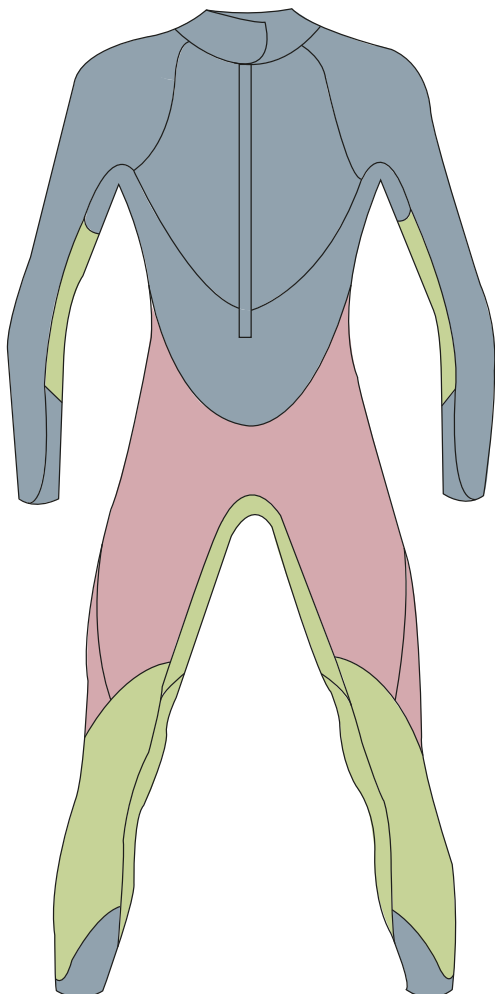
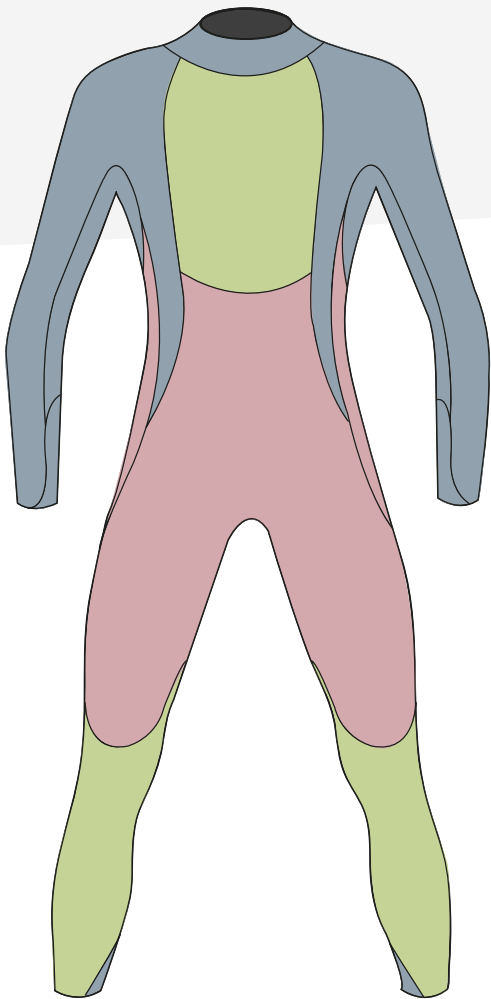
SCS is a Super Composite Skin. It is applied to the surface of the smooth skin. By applying a micellar structure with both hydrophilic and hydrophobic properties, it coats the surface with water molecules when the surface is wet. This leads to reducing the resistance when putting on and taking off and alleviates water resistance. SCS also provides increased thermal insulation and extra comfort. Several of the world's top free divers wear wetsuits with SCS coatings and have set new records, in addition to this triathlon suits like ours use this coating along with competition swimwear. (Friction resistance coefficient: 0.32 ~ 0.021cdf).

## What is Aerodome?

This material has airholes evenly positioned on the rubber layer. It reduces the weight of the material and aids the release of body humidity. Using the Aerodome process on rubber adds buoyancy by keeping air bubbles in the air holes and even improves heat retention due to the heat insulating effect of the air bubbles. This is perfect for triathlon wear.

## What is Ti-Alpha?

Titanium Alpha uses a titanium alloy layer, it reflects the body temperature inwards and keeps the inside warm from the coldness of the water on the outside, meaning the cold does not affect your body temperature. (Heat reflectivity: 25~40%).



2.0mm - 2.5mm  
Yamamoto #40 neoprene  
with SCS coating



3.0mm - 3.5mm  
Yamamoto #39 neoprene  
with SCS coating



5.0mm Yamamoto  
Aerodome neoprene  
with SCS coating