

AQUARAPID

Engineered Fit
CLOSED TEE BACK
Anatomically Fully Bonded

AQUARAPID ENGINEERED FIT

Anatomically fully bonded. The strategic position of the ultrasonically bonded seams and tapes, provides a powerful frame-structure and shapes the swimmer's contour with the right support and well calibrated pressure keeping viscous drag at minimum.

HYDRODYNAMIC PANELS

construction provides an excellent high flexible fit and body contour, optimizing body position, reducing muscle's oscillation and skin vibration for maximum efficiency.

SIDE FORM FITTING PANELS

create an ultimate fit promoting an excellent swim position in the water.

LAYERED CONSTRUCTION

enhances a specific medium compression in the brief zone and in gluteal muscles's zone to stabilize the core and ensure a streamlined and sleek profile reducing form drag and increasing sensory awareness

FLEXOR AREA AND GLUTEAL ZONE

high flexible construction with strategic bonded tape placement.

CLOSED TEE BACK

provides functional back coverage



TWO-WAY MECHANICAL STRETCH BORDER

NECKLINE - SHOULDER STRAPS TEE BACK

- Soft, extremely flexible, pleasant to the touch
- Properly fitting and flexible shoulder straps and open back
- Reduced pressure and friction



TEE BACK

- Reduced surface friction
- Excellent swim position in water and optimal limb return



STRETCH TAPE

- Improved recovery
- Multi-zone compression effect
- Snug fit



BONDED SILICONE

- Soft and flexible, for unparalleled comfort
- Increased stability
- Reduced water drag



**AQ
K-TECH**

Unique body
humidity
control

**Lasting
Life Span
performance,**
optimized up to
50 washing and
drying cycles

**Excellent
breathability**
99% of initial
fabric
breathability
is maintained

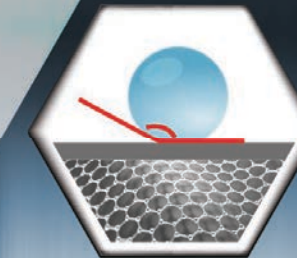
**Limited
Water Pick Up**
below 20%
after one hour
in the water

Water Glide
Minimized water
friction on fabric;
remarkably
low surface
tension

Totally human
health and
environmentally
friendly

**Ultra-
hydrophobicity**
minimum
water drag,
improved
gliding

*Water molecules that come
into contact with fabric remain
on surface, thereby allowing swimmers
to effectively glide through water*



ULTRAHYDROPHOBICITY
• Contact angle of water drops
with fabric exceeds 150°,
so that they can remain on
surface.
**MINIMIZED WATER DRAG,
MAXIMIZED GLIDING**

AQUARAPID

Engineered Fabric

4 MAIN FEATURES THAT MAKE IT A UNIQUE FABRIC
“AQ K-TECH”

- ◆ **COMPRESSION**
- ◆ **LIGHTNESS**
- ◆ **HYDROPHOBICITY**
- ◆ **DENSITY**



Fluorocarbon resin finishing has developed into the most important water (and oil) repellent treatment, since fluorocarbon resins can repel both water and oily substances. The degree of water repellency of a fabric is assessed by the Spray Test method. Drops “float” on the fabric and flow on a slightly inclined plane, thereby resulting in minimized water drag and maximized hydrophobicity.

AQ
K-TECH

● COMPRESSION

The **Compression** is reached thanks to the combination of the woven structure and the elastic yarns: the weave is created by yarns with a straight placement which allows the transfer of all the modulus without dispersion. The type and the size of the elastic portion of the yarn is 2 times more stretchable than those in a traditional elastic fabric, featuring an exceptional compression / weight ratio.

The advantages are:

1. less muscle vibration to enhance the glide in water
2. a smoother body surface in order to reduce turbulence and consequently the volume drag

● LIGHTNESS

The **Lightness** and **the limited Thickness** of **AQ K-TECH** are two important elements for the efficiency in water. Such a thin fabric, less than 0.5 mm, with low weight, has a cross section which enables a much less water retention, creating less drag in water. The fabric acts like a second skin and assures a feeling of total interaction between the skin and the water. The proprioceptive feedback such as the water feedback are consequently enhanced.

● HYDROPHOBICITY

The Hydrophobicity is reached with a special technology that is prepared and applied in the different phases of the production process. The treatment is not only on the surface of the fabric but it is done also on the single yarn filaments in the inner part of the fabric structure. For this reason, water pick up is very limited even after hours of intense use. Another unique feature, compared to a standard DWR treatment, is that this is specifically studied to make the water travel faster on the surface of the fabric thanks to a very limited friction between the fabric surface and water.

● DENSITY

A Density of more than 200 yarn crossings per square cm is the distinctive feature of **AQ K-TECH**. This is very important to guarantee less water penetration through the surface and thus a better glide. Also the smooth surface helps to lower the surface drag and contributes to the exceptional performances in water.

AQUARAPID

Engineered Fabric 4 MAIN FEATURES THAT MAKE IT A UNIQUE FABRIC “AQ K-TECH”



The water glides on the surface, the fabric remains dry,
the compression enhances the penetration in the water:
the recipe for an exceptional performance!