
















5

FIN FIGHT, P. 72

| MANUFACTURER/MODEL/CONTACT | FEATURES | | | | | | ERGO PERFORMANCE | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|---------|----------|------------------|-------------|-------|------------------|---|---|---|----------------------|---|---|----------------------|-----|--------------|-----|---------------|----|------------|----|--------------|--|-----------------|--|-------------------|--|---------|--|----------------------|
| | PRICE | MADE IN | WARRANTY | FIN STYLE | FOOT POCKET | SIZES | POWER VS. STRESS | | | | STABILITY | | | MANEUVERABILITY | | ACCELERATION | | FIT & COMFORT | | ALT. KICKS | | SURFACE SWIM | | DONNING/DOFFING | | ADJUSTING FOR FIT | | NONSKID | | ADJUSTED ERGO TOTAL* |
| OPEN-HEEL | | | | | | | MOST IMPORTANT | | | | MODERATELY IMPORTANT | | | CONVENIENCE ELEMENTS | | | | | | | | | | | | | | | | |
|  APOLLO SPORTS Bio-Fin Pro XT/C-Series www.diveapollo.com | \$260 | Japan | 1 Year | Split | Open toe | 3 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 89 | | | | | | | | | |
|  APOLLO SPORTS Bio-Fin Pro Yellow www.diveapollo.com | \$225 | Japan | 1 Year | Split | Open toe | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 90 | | | | | | | | | |
|  ATOMIC AQUATICS Reef Red www.atomicaquatics.com | \$199 | Taiwan | 1 Year | Split | Open toe | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 85 | | | | | | | | | | |
|  MARES Volo Power www.mares.com | \$189 | Italy | 2 Years | Paddle | Closed toe | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 84 | | | | | | | | | |
|  TUSA Imprex Tri-Ex www.tusa.com | \$89 | Taiwan | 3 Years | Paddle | Closed toe | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 83 | | | | | | | | | |
|  AERIS Velocity Duo www.diveaeris.com | \$129.95 | Italy | 2 Years | Split | Closed toe | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 79 | | | | | | | | | |
|  GENESIS SCUBA Response www.genessiscuba.com | \$75 | Italy | 2 Years | Paddle | Closed toe | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 73 | | | | | | | | | | |
|  H2ODYSSEY F-14 Thruster www.h2odyssey.com | \$59.95 | China | 1-Yr. | Paddle | Closed toe | 2 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 71 | | | | | | | | | | |
|  SHERWOOD SCUBA Impact www.sherwoodscuba.com | \$99 | Taiwan | Ltd. | Paddle | Open toe | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 66 | | | | | | | | | | |
|  H2ODYSSEY / TILOS Mach II Turbo www.h2odyssey.com / www.tilos.com | \$139.95/ \$100 | Taiwan | 2 Years | Horizontal Split | Closed toe | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 65 | | | | | | | | | | |
|  TILOS Magnifica www.tilos.com | \$70 | Italy | 1-Yr. | Paddle | Closed toe | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 64 | | | | | | | | | | |
|  SCUBAPRO Razor www.scubapro.com | \$108 | Italy | Ltd. | Paddle | Closed toe | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 63 | | | | | | | | | | |
| FULL-FOOT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  TUSA X-Pert Zoom FF-9 www.tusa.com | \$50 | USA | 1-Yr. | Split | Open toe | 6 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | N/A | 3 | 82 | | | | | | | | | | | |
|  ATOMIC AQUATICS Full-Foot SplitFin** www.atomicaquatics.com | \$89 | Taiwan | Ltd. | Split | Open toe | 6 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | N/A | 3 | 75 | | | | | | | | | | | | | |
|  TILOS Feather www.tilos.com | \$37 | Italy | Lifetime | Paddle | Open toe | 6 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 4 | N/A | 2 | 64 | | | | | | | | | | | | | |

5=Excellent, 4=Very Good, 3=Good, 2=Fair, 1=Poor

*HOW WE DETERMINE TESTERS' CHOICES ScubaLab Testers' Choices are based on the adjusted scores for ergonomic performance (actual scores x 3 for "Most Important" categories, actual scores x 2 for "Moderately Important" categories, and actual scores x 1 for "Convenience Elements"), plus numerical scores for speed, slalom and efficiency course runs.

MOST IMPORTANT

Power vs. Stress: The perception of power produced vs. effort required.
 > Stability: How much the fins wobble, slice from side to side or hit each other during the kick cycle. > Maneuverability: The ease of turning, as well as getting in and out of tight places using fin power; i.e., backing up, changing or reversing directions, using small fin movements. > Acceleration: During an underwater swim, the ability to quickly pick up speed.

Fit & Comfort: Of foot pocket. > Alternate Kicks: Ease and effectiveness of frog and dolphin kicks. > Surface Swim: Both face-down and while on the back.

CONVENIENCE ELEMENTS

Donning/doffing: Prior to dive, after the dive. > Adjusting for fit: Ease of using buckles and straps, both in and out of the water. > Nonskid: The sense of security on a wet boat deck geared up while wearing fins.

MODERATELY IMPORTANT

** Please see editor's note, page 79.



| OBJECTIVE PERFORMANCE | | | | | |
|-----------------------|-------|--------|------------|-----------------|---------------|
| | SPEED | SLALOM | EFFICIENCY | OBJECTIVE TOTAL | OVERALL TOTAL |
| | 5 | 5 | 5 | 15 | 104 |
| | 4 | 5 | 5 | 14 | 104 |
| | 4 | 4 | 5 | 13 | 98 |
| | 4 | 3 | 4 | 11 | 95 |
| | 3 | 3 | 4 | 10 | 93 |
| | 3 | 4 | 4 | 11 | 90 |
| | 3 | 3 | 4 | 10 | 83 |
| | 3 | 2 | 2 | 7 | 78 |
| | 3 | 2 | 2 | 7 | 73 |
| | 3 | 1 | 2 | 6 | 71 |
| | 2 | 3 | 2 | 7 | 71 |
| | 2 | 2 | 2 | 6 | 69 |
| | 4 | 4 | 4 | 12 | 94 |
| | 4 | 4 | 4 | 12 | 87 |
| | 3 | 2 | 3 | 8 | 72 |

THE SPEED COURSE

Six test divers, using the flutter kick at an average depth of 10 feet, took each fin on three speed runs. The highest sustained speed, as measured by digital underwater speedometers, for each fin, was taken from each diver, then averaged for the following speeds. In addition, test divers did one run each using the frog kick and the dolphin kick to get a sense of the fin's relative speeds using these alternate kicks.

When applied to real-world diving, the difference of 1/10th mph is insignificant. Speed data should be used in conjunction with maneuverability, efficiency and ergonomic results for a complete picture of a fin's performance.

| MPH FLUTTER KICK | MPH FROG KICK* OPEN-HEELS | MPH DOLPHIN KICK* |
|--|--|--|
| 3.0 Apollo Bio-Fin Pro XT/C-Series | 2.3 Apollo Bio-Fin Pro XT/C-Series | 2.4 Apollo Bio-Fin Pro XT/C-Series |
| 2.7 Apollo Bio-Fin Pro Yellow | 2.0 Apollo Bio-Fin Pro Yellow | Apollo Bio-Fin Pro Yellow |
| 2.6 Atomic Aquatics Reef Red | 1.9 Atomic Aquatics Reef Red | 2.2 Atomic Aquatics Reef Red |
| Mares Volo Power | Mares Volo Power | Genesis Scuba Response |
| 2.5 H2Odyssey Thruster | Tusa Imprex Tri-Ex | Mares Volo Power |
| Tusa Imprex Tri-Ex | 1.8 Genesis Scuba Response | 2.1 H2Odyssey Thruster |
| 2.4 Aeris Velocity Duo | H2Odyssey F-14 Thruster | Tusa Imprex Tri-Ex |
| Genesis Scuba Response | 1.7 Aeris Velocity Duo | 2.0 Sherwood Scuba Impact |
| H2Odyssey/Tilos Mach II Turbo | H2Odyssey/Tilos Mach II Turbo | 1.9 Aeris Velocity Duo |
| Sherwood Scuba Impact | Sherwood Scuba Impact | H2Odyssey/Tilos Mach II Turbo |
| 2.2 Scubapro Razor | Tilos Magnifica | Tilos Magnifica |
| Tilos Magnifica | 1.6 Scubapro Razor | 1.8 Scubapro Razor |
| FULL-FOOTS | | |
| 2.8 Atomic Aquatics Full-Foot SplitFin** | 2.1 Atomic Aquatics Full-Foot SplitFin** | 2.4 Tusa X-Pert Zoom FF-9 |
| Tusa X-Pert Zoom FF-9 | 1.9 Tusa X-Pert Zoom FF-9 | 2.2 Atomic Aquatics Full-Foot SplitFin** |
| 2.5 Tilos Feather | 1.8 Tilos Feather | Tilos Feather |

* These are interest items only and were not factored into the scoring. For more results of fin performance using alternate kicks, see the ergo performance chart.

THE SLALOM COURSE

Six test divers, using a flutter kick, swam an obstacle course in approximately 10 feet of water. While on the course, divers' hands clutched either weight belts or BC straps to ensure all maneuvering power was generated by the fins. Divers swam two circuits per fin, timing their runs with digital stopwatches. The fastest time for each fin was taken from each diver, then averaged, to come up with the following course times.

| TIME (in seconds) | |
|-------------------|--------------------------------------|
| OPEN-HEELS | |
| 30 | Apollo Bio-Fin Pro XT/C-Series |
| 31 | Apollo Bio-Fin Pro Yellow |
| 32 | Atomic Aquatics Reef Red |
| 33 | Aeris Velocity Duo |
| 34 | Mares Volo Power |
| | Tusa Imprex Tri-Ex |
| 35 | Genesis Scuba Response |
| | Tilos Magnifica |
| 36 | Sherwood Scuba Impact |
| 37 | H2Odyssey F-14 Thruster |
| | Scubapro Razor |
| 38 | H2Odyssey/Tilos Mach II Turbo |
| FULL-FOOTS | |
| 33 | Atomic Aquatics Full-Foot SplitFin** |
| | Tusa X-Pert Zoom FF-9 |
| 36 | Tilos Feather |

THE EFFICIENCY COURSE

Six test divers, using a flutter kick in approximately 10 feet of water, swam a straight-line course 65 feet long, including a 15-foot "runway" to allow them to achieve their most efficient kicking rhythm before starting their digital stopwatches. Divers completed two runs for each fin. The best runs for each diver for each fin were then averaged.

Note: This test is new to our fin protocols, but the data is remarkably consistent with our established tests for speed and maneuverability. As with our other tests, we don't recommend using this data alone to make your fin choice. It should be used only in conjunction with speed, slalom

| COURSE TIME (in seconds) | |
|--------------------------|--------------------------------------|
| OPEN-HEELS | |
| 20 | Apollo Bio-Fin Pro Yellow |
| 21 | Apollo Bio-Fin Pro XT/C-Series |
| | Atomic Aquatics Reef Red |
| 22 | Tusa Imprex Tri-Ex |
| 23 | Aeris Velocity Duo |
| | Genesis Scuba Response |
| | Mares Volo Power |
| 26 | Scubapro Razor |
| | Sherwood Scuba Impact |
| | Tilos Magnifica |
| 27 | H2Odyssey F-14 Thruster |
| | H2Odyssey/Tilos Mach II Turbo |
| FULL-FOOTS | |
| 22 | Atomic Aquatics Full-Foot SplitFin** |
| 23 | Tusa X-Pert Zoom FF-9 |
| 24 | Tilos Feather |



** Please see editor's note, page 79.