



# FAST<sup>®</sup> RF1

## High Cut Helmet System



The Ops-Core FAST RF1, part of the FAST ballistic protective helmet family, is the newest generation of innovative headborne protection. At an average of 3.5 lbs, it is the lightest weight helmet system to offer protection from 7.62x39mm projectiles, in addition to frag and handgun protection. The FAST RF1 seamlessly integrates with Ops-Core total headborne system solutions including situational awareness, optical, and respiratory protection.

- Industry-leading ballistic protection against small arms threats.
- Ballistic shell made of a hybrid composite of the most advanced Carbon, Unidirectional Polyethylene and woven Aramid.
- Shell geometry extends critical coverage over the rear occipital lobe without load carrier interference, and optimizes weight distribution for increased stability, integration, balance, and improved comfort.
- Features a lightweight Modular Bungee Shroud (MBS) which reduces snag hazards and interference. Integrated carabiner clips improve NVG retention, stability, and reduce interference with rail-mounted accessories.
- Molded liner features proprietary recessed groove, accommodating over-the-head communications headsets with no interference or user discomfort, and ability to doff and don helmet without removing the headset.
- Interior of helmet features expanded polypropylene (EPP) liner, offering enhanced impact protection, and molded-in vent holes provide increased airflow and reduce heat stress.

## SPECIFICATIONS

**Performance Specification:** In accordance with Gentex PS-1368

### Fragmentation Protection:

Projectile	Minimum V50 BL(P) at 0°(±5°) Obliquity (ft/s)	Minimum V50 BL(P) at 0°(±5°) Obliquity (m/s)
2 - Grain RCC	6,050	1,844
4 - Grain RCC	5,575	1,699
16 - Grain RCC	4,625	1,409
64 - Grain RCC	3,150	960
17 - Grain FSP	4,400	1,341

### Resistance to Penetration\*:

Projectile	V0 RTP at 0°(±3°) Obliquity (ft/s)	V0 RTP at 0°(±3°) Obliquity (m/s)
9mm FMJ RN	1,400	427
7.62 x 39mm MSC	2,380	725
7.62 x 51mm M80 Ball NATO FMJ	2,780	847
5.56mm M193 BT	3,250	990

\*Qualified Internally, Size XL Only

**Blunt Impact Protection:** <150 G's at 10 ft/s per ACH CO/PD 05-04:2007

**Compression Testing:** Top-Bottom = .020" (0.51 mm) Max @ 400 lbs. (181.44 kg), Side-Side = .125" (3.18 mm) Max @ 300 lbs. (136.08 kg) per MICH Type II FQ/PD 06-35C: 2013

**Environmental Resistance:** Temperature -Storage and Operating at Ambient, Cold -60° F (-51° C), and Hot +160° F (71° C), Temperature Shock, Flame Resistance, Altitude, Vibration, Seawater, Field Agent Resistance, Weatherometer per ACH CO/PD 05-04:2007

**Shell Construction:** Two-Stage Non Slit

**Available Sizes:** Medium (M), Large (L), X-Large (XL), XX-Large (XXL)

**Shell Thickness:** 0.400" (10.16mm)

**Shell Geometry (Curvature):** FAST

**Cut Style (Side Protection):** High Cut

**Available Colors:**





## FAST RF1

### SPECIFICATIONS (CONTINUED)

#### SHELL SIZING & COVERAGE

Available Sizes	Medium	Large	X-Large	XX-Large
<b>Head Size</b> (Circumference)	20 7/8 - 22 in (53-56 cm)	22-23 1/4 in (56-59 cm)	23 1/4 - 24 3/8 in (59-62 cm)	24 3/8 - 25 1/8 in (62-64 cm)
<b>Square Coverage</b>	137 in <sup>2</sup> (884 cm <sup>2</sup> )	148 in <sup>2</sup> (955 cm <sup>2</sup> )	163 in <sup>2</sup> (1052 cm <sup>2</sup> )	171 in <sup>2</sup> (1103 cm <sup>2</sup> )

#### SHELL WEIGHT

Available Sizes **	Medium	Large	X-Large	XX-Large
<b>FAST RF1 Shell Weight</b> (Shell with Paint & Edge Band)	2.41lbs (1097g)	2.59lbs (1175g)	2.86lbs (1301g)	3.13lbs (1418g)

#### SYSTEM WEIGHT

Available Sizes **	Medium	Large	X-Large	XX-Large
<b>FAST RF1 System Weight</b> (FAST RF1 Shell with Vented Lux Liner w/ Occ-Dial Universal Fitband)	3.32lbs (1509g)	3.51lbs (1594g)	3.85lbs (1745g)	4.11lbs (1865g)

(\*\*Estimated calculations of weights) Note: All measurements are +/- 3% tolerance

#### Contact Us

Ops-Core is committed to designing advanced performance capabilities for the elite warrior. For more information regarding the Ops-Core FAST RF1 High Cut Helmet System, contact Ops-Core at 617.670.3547 or sales@ops-core.com. The FAST RF1 High Cut Helmet is controlled for export by the U.S. Export Administration Regulations (EAR) 15 CFR 730-774. The export of this helmet and related technical information requires prior authorization from the U.S. Government.