.30 / 7.62 · 3D-PRINTED TITANIUM · AIR-GAPPED

PATENT PENDING
APPLICATION FILED

MRT-30
CARBON / TI SUPPRESSOR

The MRT-30 wraps a 3D-printed titanium core in carbon-fiber insulation and a carbon-fiber shell. Air-gapped to help it cool, light enough to forget it's there — 450 grams, ready to carry.



FIG.01 — PRODUCTION UNIT


FIG.02 — MOUNTED


FIG.03 — FRONT PLATE

WEIGHT	CALIBER	CORE	PRICING
450 g	**.30** / 7.62	**CF** + Ti	**Quote**
15.9 OZ	CAL · MM	CARBON FIBER · TITANIUM	AVAILABLE UPON REQUEST

KEY FEATURES

FTR

01 CARBON FIBER INSULATION & SHELL

An insulating layer using 250 yards of dry carbon-fiber tow and a carbon-fiber outer shell help reduce the heat signature.

02 3D-PRINTED TITANIUM CORE

3D-printed from titanium for a core that's strong, light and precise.

03 AIR-GAPPED COOLING

An air-gapped design aids cooling, helping the can shed heat and keep surface temperatures in check.

THERMAL PERFORMANCE

MEASURED HEAT BUILD-UP

Two live-fire tests, both with PMC X-Tac 5.56mm NATO 55 gr FMJBT ammunition. Surface temperatures read by thermal camera (ε 0.91, 3 ft).

TEST 01 · FULL AUTO

FA

90 rounds in three 30-round strings, with a 1-minute pause between each. Center surface temperature went from 282 °F to 330 °F, and each string added less heat than the one before. **Not recommended for sustained full-auto fire.**

FIG.04 · STR 1 — **30 ROUNDS**



CENTER SURFACE

282.0 °F

ROUNDS 1–30 · FULL AUTO

FIG.05 · STR 2 — **60 ROUNDS**



CENTER SURFACE

315.3 °F

ROUNDS 31–60 · AFTER 1-MIN PAUSE

FIG.06 · STR 3 — **90 ROUNDS**



CENTER SURFACE

329.8 °F

ROUNDS 61–90 · TEST CONCLUDED

+33 → +15 °F	330 °F Center	30 Round Burst Tested
RISE PER STRING · SLOWING	AT 90 ROUNDS · TEST CONCLUDED	NOT RATED FOR SUSTAINED FULL AUTO

TEST 02 · SEMI-AUTO COMPARISON

SA

50 rounds semi-auto at roughly 2–3 shots per second, fired through a typical titanium suppressor and through the MRT-30.

FIG.07 — **TYPICAL TITANIUM**



MAX SURFACE

609.9 °F

50 RDS · SEMI-AUTO

FIG.08 — **MRT-30**



MAX SURFACE

203.8 °F

50 RDS · SEMI-AUTO

406 °F

COOLER PEAK SURFACE TEMP

⅓

THE PEAK HEAT OF A TYPICAL TITANIUM CAN

CONSTRUCTION & SPECIFICATIONS

BUILT IN LAYERS


FIG.09 — CUTAWAY · CARBON TOW INSULATION

LAYERED CONSTRUCTION

SECTION

OUTSIDE ↑

Carbon Fiber Outer Shell
LIGHT, DURABLE EXTERIOR

Carbon Fiber Insulation
REDUCES HEAT SIGNATURE

Air Gap
AIDS COOLING

3D-Printed Titanium Core
ADDITIVE MANUFACTURED

BORE · .30 / 7.62

SPECIFICATIONS

SPEC

MODEL	MRT-30
CALIBER	.30 / 7.62 mm
THREAD PITCH	5/8" × 24
WEIGHT	450 g (15.9 oz)
CORE STRUCTURE	3D-Printed Titanium
COOLING	Air-Gapped Design
INSULATION	Carbon Fiber
OUTER SHELL	Carbon Fiber
IP STATUS	**PATENT PENDING**
PRICING	**QUOTE UPON REQUEST**