

MUSGRAVE BATTLE RIFLE

TESTS AND CERTIFICATION DONE BY GEROTEK ARMSCOR SOUTH AFRICA

Mil-Std certified by Independent National Laboratory

Low temperature storage -51°C for 24 hours
Low temperature operational -30°C for 18 hours
High temperature storage +71°C for 24 hours
High temperature Operational +55°C for 14 hours
Drop test 1,5m multiple drop orientation
Water emersion test 1m depth
Mud submersion
Sand and dust exposure
Rain exposure 300mm/hour
Humidity test +30% at 90% RH for 96 hours
Salt water submersion

Barrel

M4 Feed Ramp Barrel Extension
5.56mm NATO Chambers
Certified 709M40 Chrome Molly Steel
Athenic Amor Finish
Heavy Profile Barrels with 1/9 twist rate
HPT (High Pressure Test) Barrels
MPI (Magnetic Particle Inspected) Barrels

Bolt and Bolt Carrier

HPT Bolt (High Pressure Tested/ Proof)
MPI Bolt (Magnetic Particle Inspected)
Shot Peened Bolt
Manganese Phosphate Finnish
Gas Key Hardened
Grade 8.8 Hardened Fasteners
Staked Gas Key
Tool Steel Extractor
Enhanced Extractor Spring kit
Adjustable Gas Block

Upper and Lower Receiver

M4 Feed Ramp Flat Top Receiver
Receivers Machined from certified 7075-T6 Aluminum billets
Receivers Type III hard anodized
Staked castle nut
Mill spec buffer tube and Stock
Enhanced Trigger Guard



RRP: R26 999



Rifle shown with optional optics



Rifle shown with optional optics

TEST CERTIFICATE

COMPANY : J & J Wapens en Geweersmede t/a Musgrave
ADDRESS : 59 Kerk Street; ERMELO; 2350
TELEPHONE NO. : +27(0) 17 819 3415
E-MAIL ADDRESS : gunsmith2@jjwapens.co.za
PROJECT NUMBER : 17822
TEST ITEM (UUT) : Musgrave AR 15
TEST SPECIFICATION :

- Musgrave/ET-1: Environmental Testing Procedure
- MIL-STD-810G (October 2008): DEPARTMENT OF DEFENCE TEST METHOD STANDARD_ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS_Method 510.5

DATE RECEIVED : 2023-04-11

DATE COMPLETED : 2023-04-26

TEST EQUIPMENT :

Equipment	Asset no.	Calibration certificate no.
Stainless steel ruler	Cons043	NMISA-LEN-2022-1769
Rain Apparatus	13002853	Verified
100 ml Measuring Cylinders	N/A	N/A
Miscellaneous weights	N/A	N/A
Scale 0 - 150 kg	OTF0803	AP484/20
Climatic Chamber	13003851	OSF14320
Climatic Chamber	13003852	OSF14321
Climatic Chamber Walk-in#1	13003254	C/2022/005
Dust Chamber	OTF0155	C/2022/003
Sand Blowing Machine	N/A	Verified
Portable Weather Station	13002876	L84532

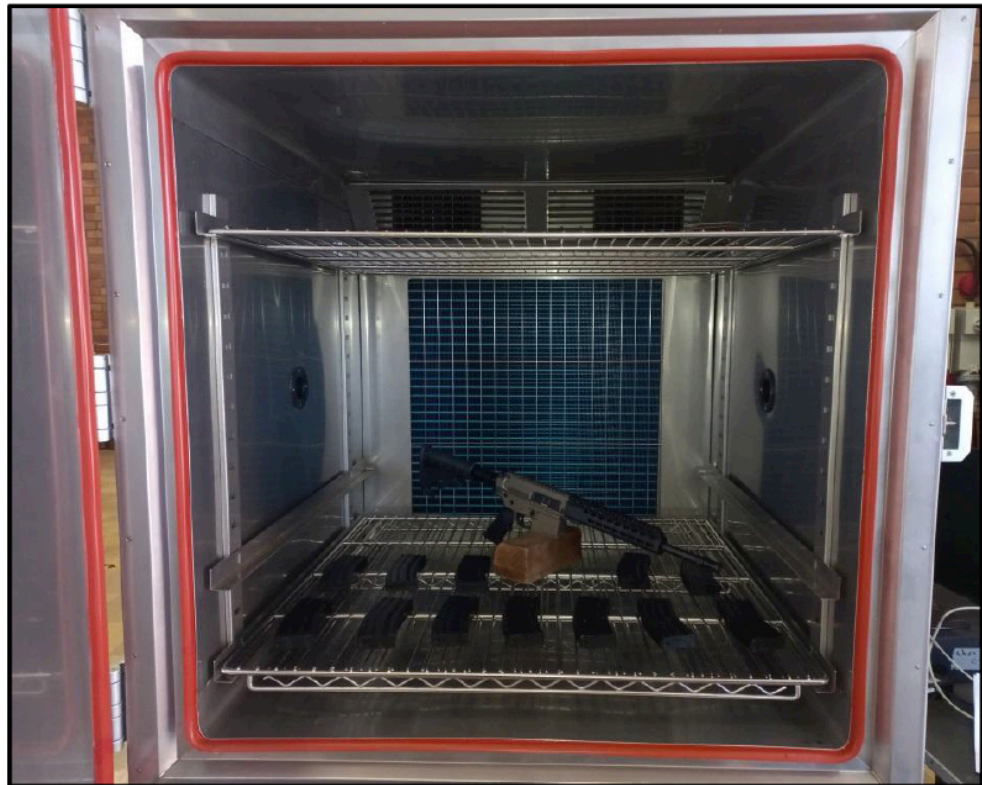
SUMMARY OF TEST :

Water Immersion	UUT immersed in water, depth 1 m
Mud	UUT immersed in mud
Sand & Dust	UUT subjected to sand and dust ingress
Rain	UUT subjected to heavy rainfall
Robustness (Drop)	UUT drop from 1.5 m in five directions
Low temperature storage	UUT subjected to -51°C for 24 hours
Low temperature operational	UUT subjected to -30°C for 18 hours
High temperature storage	UUT subjected to +71°C for 24 hours
High temperature operational	UUT subjected to +55°C for 14 hours
Humidity	UUT subjected to +30°C at 90 % RH for 96 hours

SUMMARY OF RESULTS :

Water Immersion	Compliant
Mud	Compliant
Sand & Dust	Compliant
Rain	Compliant
Robustness (Drop)	Compliant
Low temperature storage	Compliant
Low temperature operational	Compliant
High temperature storage	Compliant
High temperature operational	Compliant
Humidity	Compliant

PHOTOGRAPH :



AUTHOR:



P K PHORABATHO
TEST OFFICIAL

2023-05-11

Date

APPROVAL:



R VAN DEN BERG
TECHNICAL MANAGER

2023-05-12

Date