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TNO report

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**Performance tests HS Produkt/Springfield
Armory XDM Elite 4.5 calibre 9x19 / HS SF 19
calibre 9x19**

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Summary

Performance Tests of the HS PRODUKT/SPRINGFIELD XDM Elite 4.5 calibre 9x19 / HS SF 19 calibre 9x19 pistol



HS Produkt (Croatia) requested TNO to test 10 XDM Elite 4.5 calibre 9x19 / HS SF 19 calibre 9x19 items for correct and safe functioning after environmental stress. The overall result of the performance tests is that they have been completed successfully.

The test was conducted based on NATO guideline AC/225(LG/3-SG/1)D/14 and on MIL-STD-810G, Environmental Engineering Considerations and Laboratory Tests. From these test documents, the most relevant and important tests, and associated test methods, were selected. Besides, additional test requirements were defined.

The table below lists all tests that have been performed and shows the test results.

Test topic	Reference document	Result
Preliminary inspection, firing and weapon characteristics & Interchangeability	NATO AC/225(DSS)D(2018)0006, Section 2.1, 2.4, 2.6 and 2.18	Pass
Endurance	NATO AC/225(DSS)D(2018)0006, Section 2.5	Pass
Accuracy	NATO AC/225(DSS)D(2018)0006, Section 2.4	Pass
Extremes climatic conditions (Cold / High Temperature / Temperature and Humidity / Icing)	NATO AC/225(DSS)D(2018)0006, Section 2.9	Pass
Adverse conditions (Sand Drag / Sand and Dust / Mud / Salt Fog / Accelerated Water Spray / Salt Water Immersion)	NATO AC/225(DSS)D(2018)0006, Section 2.13	Pass
Rough handling	NATO AC/225(DSS)D(2018)0006, Section 2.15	Pass
Drop test	NATO AC/225(DSS)D(2018)0006, Section 2.15	Pass
Mechanical Safety	NATO AC/225(DSS)D(2018)0006, Section 2.10	Pass
Recoil measurement	NATO AC/225(DSS)D(2018)0006, Section 2.11	Pass

The weapon performed very well during the tests, including the tests concerning extreme climatic conditions and adverse conditions.

Moreover, especially the endurance test method put a significant load on the weapon. This was due to the fact that it was an HS Produkt requirement that at least 15,000 shots were performed during the endurance test. As an extra, with one weapon the endurance test was extended to 20,000 shots. Despite this extra load, the weapon performed very well during the endurance test.

Concluding, it is stated that, according to the tests performed, the XDM Elite 4.5 calibre 9x19 / HS SF 19 calibre 9x19 has demonstrated to function correctly and safely.