

**The Appendix is an integral part of
Certificate of Accreditation No. 37/2022 of 26/01/2022**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

Explosia a.s.

Analytical and Testing Department
Semtín 107, 530 02 Pardubice

Testing laboratory locations:

- | | | |
|----|--------------------------------------|------------------------------|
| 1. | Ballistics Testing Laboratory | Semtín 107, 530 02 Pardubice |
| 2. | Safety Engineering Laboratory | Semtín 107, 530 02 Pardubice |
| 3. | GC/MS and HPLC Laboratory | Semtín 107, 530 02 Pardubice |

1. **Ballistics Testing Laboratory**

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1	Maximum pressure test of powder gases	ČSN 39 5105, cl. 4.4.1 (Test No. 16); ČOS 130506, cl. 9.2 (Test No. 2)	Smokeless powders for weapons up to 30 mm caliber (including)
2	Test of projectile velocity	ČSN 39 5105, cl. 4.4.2 (Test No. 17); ČOS 130506, cl. 9.1 (Test No. 1)	Smokeless powders for weapons up to 30 mm caliber (including)
3	Test of barrel pressure-time dependence	PI No. 104 (ČSN 39 5105, cl. 4.4.6 (Test No. 21))	Smokeless powders for weapons up to 30 mm caliber (including)
4	Combined test of the electronic measurement of pressure, velocity and operating time	PI No. 103 (ČSN 39 5105, cl. 4.4.1, 4.4.2, 4.4.6 (Test No. 16, 17, 21); ČOS 130506, cl. 9.2, 9.1 (Test No. 2 and 1))	Smokeless powders for weapons up to 30 mm caliber (including)

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

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2. Safety Engineering Laboratory

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1	Determination of sensitiveness to friction	PI No. 202 (Recommendations ³ - Test 3 (b) (i); Council Regulation (EC) No. 440/2008, A.14, cl. 1.6.3; ČSN EN 13631-3)	Explosives, explosive substances,
2	Thermal stability test at 75°C	PI No. 203 (Recommendations ³ - Test 3 (c) (i) - Test 4 (a))	Explosives, explosive substances,
3*	Determination of mass explosion capability	PI No. 204 (Recommendations ³ - Test 6 (a) - Test 6 (b))	Explosives, explosive objects
4*	Test of sensitivity to external fire	PI No. 205 (Recommendations ³ - Test 3(d) - Test 5(c) - Test 6(c))	Explosives, explosive objects
5	Determination of air temperature	PI No. 206 (ČSN 66 8063:1970)	Explosives
6*	Test of sensitivity to external heat stimulus – Koen test	PI No. 207 (Recommendations ³ - Test 1(b) - Test 2(b); Council Regulation (EC) No.440/2008, A.14, cl. 1.6.1)	Explosives
7*	Test of sensitivity to 12 m fall	PI No. 208 (Recommendations ³ - Test 4 (b) (ii))	Explosives, explosive substances,
8*	Untight package test	PI No. 211 (Recommendations ³ - Test 6(d))	Explosives, explosive objects

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
9	Determination of sensitiveness to hammer impact	PI No. 213 (Recommendations ³ - Test 3 (a) (ii); Council Regulation (EC) No.440/2008, A.14, cl. 1.6.2; ČSN EN 13631-4)	Explosives, explosive objects

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises – the test is carried out at Explosia a.s. – Shooting range

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, Sixth revised edition, United Nations, New York and Geneva, 2019 (ST/SG/AC.10/11/Rev.7)

3. GC/MS and HPLC Laboratory

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1	Quantitative determination of centralite I, centralite II, akardite II by gas chromatography/ mass spectrometry method	PI No. 301 (ČOS 137601, chap. 7.5)	Smokeless powders
2	Quantitative determination of nitroglycerine, diphenylamine, 2-nitrodiphenylamine by liquid chromatography method	PI No. 302 (ČOS 137601, chap. 7.5)	Smokeless powders

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes).

Explanatory notes:

PI – Operating Instructions

ČOS – Czech Defence Standard

Council Regulation (EC) No. 440/2008 – Council Regulation (EC) No. laying down test methods pursuant to Regulation (EC) No 1907/2006 of the European Parliament and of the Council