The Appendix is an integral part of Certificate of Accreditation No. 503/2019 of 03/10/2019

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

Explosia, a.s.

Analytics and Testing Department Semtin 107, 530 02 Pardubice 2

Testing Laboratory Locations:

Ballistics Testing Laboratory
 Safety Engineering Laboratory
 GC/MS and HPLC Laboratory
 Semtin 107, 530 02 Pardubice
 Semtin 107, 530 02 Pardubice
 Semtin 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, Test No. 16 ČOS 130506	Smokeless powders for weapons up to 30 mm caliber (including)
2.	Test of projectile velocity	ČSN 39 5105, Test No. 17 ČOS 130506	Smokeless powders for weapons up to 30 mm caliber (including)
3.	Test of barrel pressure-time dependence	PI No. 104 (ČSN 39 5105, 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, Test No. 16, 17, 21, ČOS 130506)	Smokeless powders for weapons up to 30 mm caliber (including)
5.	Ballistic test – measurement of pull and pressure	PI No. 107	Pressure generator Pull generator

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

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
6.	Determination of	PI No. 201	Explosives, explosive
	sensitiveness to hammer	(Recommendations 3)	substances
	impact	- Test 3(a) 4)	
		Council Regulation (EC) No 440/2008, A.14, p. 1.6.22 (4)	
		ČSN EN 13631-4)	
7.	Determination of	PI No. 202	Explosives, explosive
22 - 1.1	sensitiveness to friction	(Recommendations 3)	substances
		- Test 3(b) 3)	
į		Council Regulation (EC) No	
		440/2008, A.14, p. 1.6.32 ⁴⁾	
		ČSN EN 13631-3)	
8.	Thermal stability test at 75°C	PI No. 203	Explosives, explosive
		(Recommendations 3)	objects
		- Test 3(c)	•
		- Test 4 (a))	
9.*	Determination of mass explosion capability	PI No. 204	Explosives, explosive
VI.(VII.)		(Recommendations 3)	objects
		- Test 6(a)	•
		- Test 6 (b))	
10.*	Test of sensitivity to external fire ⁵⁾	PI No. 205	Explosives
		(Recommendations 3)	A. 1000 S. 200
		- Test 3(d)	
		- Test 5(c)	
		- Test 6(c))	
11.	Flash point test	PI No. 206	Explosives
		(ČSN 66 8063)	
12.*	Test of sensitivity to external	PI No. 207	Explosives, explosive
	heat stimulus – Koen tests ⁵⁾	(Recommendations 3)	substances
		- Test 1(b)	
		- Test 2(b)	
		Council Regulation (EC) No	
		440/2008, A.14, p. 1.6.12 ⁴)	
13.*	Test of sensitivity to 12m fall	PI No. 208	Explosives, explosive
	5)	(Recommendations 3)	objects
		- Test 4(b) 4)	
14.*	Test of untight packaging ⁵⁾	PI No. 2-17 (Recommendations 3) Test 6(d))	Explosives, explosive objects

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- 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).
- Recommendations on the Transport of Dangerous Goods Manual of Test and Criteria, United Nations, 2009 (ST/SG/AC.10/11/Rev.5)
- Council Regulation (EC) No 440/2008, laying down test methods pursuant to Regulation (EC) No 1907/2006 of the European Parliament and of the Council
- 5) The test is carried out in the premises of Explosia a.s. Shooting range

3. GC/MS and HPLC Laboratory

Tests:

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

- 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).

Explanations:

PI Operating Instructions (Internal document of the TL)

ČOS Czech Defence Standard

