



EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

CERTIFICATE OF ACCREDITATION

No. **569/2025**

TECHNICKÉ LABORATOŘE OPAVA, akciová společnost
with registered office Těšinská 2962/79b, Předměstí, 746 01 Opava
Company Registration No. 25667521

for the Testing Laboratory No. **1322**
Testing Laboratory

Scope of accreditation:

Testing of mine supports, machinery and equipment including mining, mining and general hydraulics, ropes and thermal, climatic, solar simulation and corrosion resistance tests of products to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 288/2024 of 13/06/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **13/06/2029**

Prague: 10/11/2025



Signed in the Czech original:
Zdeňka Drdová on 10/11/2025

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

**The Appendix is an integral part of
Certificate of Accreditation No. 569/2025 of 10/11/2025**

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

TECHNICKÉ LABORATOŘE OPAVA, akciová společnost

CAB number 1322, Testing Laboratory
Těšínská 2962/79b, Předměstí, 746 01 Opava

Testing laboratory locations:

- | | |
|--------------------------------------|--|
| 1. Workplace Opava | Těšínská 2962/79b, Předměstí, 746 01 |
| 2. Workplace Černá ve Slezsku | Černá ve Slezsku 100, 749 01, Černá ve Slezsku |

The laboratory applies a flexible approach to the scope of accreditation

The current list of activities carried out within the flexible scope is available on the laboratory's website <https://www.tlo.cz/sluzby/zkusebni-laborator/> in the form of the „List of activities within the flexible scope of accreditation“.

1. Workplace Opava

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Hydraulic test	ČSN 44 4440, cl. 36; ČSN EN 1804-2, Annex A.1.1, A.1.2.4; EN 1804-2, Annex A.1.1, A.1.2.4	Individual reinforcement – hydraulic mine legs, powered supports – hydraulic legs and rams	-
2	Hydraulic test	ČSN EN 1804-3, Annex A1.1, A.1.3, A.1.3.1, A.1.3.2, A.1.4, A.1.4.1, A.1.4.2, A.1.5, A.1.5.1, A1.5.2; EN 1804-3, Annex A1.1, A.1.3, A.1.3.1, A.1.3.2, A.1.4, A.1.4.1, A.1.4.2, A.1.5, A.1.5.1, A1.5.2; ČSN 44 4450, Annex A.3.1, A.3.2, A.3.2.1, A.3.2.2; ČSN 11 9008, cl. 4.5; ČSN 44 4440, cl. 31	Powered supports – hydraulic control systems – valves, hydraulic control systems – valves, hydrostatic mechanisms	-
3	Filling test	ČSN 44 4440, cl. 34	Individual face support – hydraulic pit props	-
4	Inner column retraction test	ČSN 44 4440, cl. 35	Individual face support – hydraulic pit props	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
5	Test to determine characteristics	ČSN 44 4440, cl. 37	Individual face support – hydraulic pit props	-
6	Axial load test	ČSN 44 4440, cl. 38	Individual face support – hydraulic pit props	-
7	Extra-axial load test	ČSN 44 4440, cl. 39	Individual face support – hydraulic pit props	-
8	Determination of pass-through dimensions	ČSN EN 1804-1, cl. 4.1.2; EN 1804-1, cl. 4.1.2; ČSN 44 4450, cl. 5.1.2; PP - 42.03.06 (ČSN EN ISO 2867)	Roof support - support section, mobile working machines, stationary machines and equipment	-
9	Hydraulics test – test of operational functionality of hydraulic components	ČSN EN 1804-1, Annex A.6; EN 1804-1, Annex A.6	Roof support – support section	-
10	Cyclic fatigue test	ČSN EN 1804-1, Annex A.1.3.1, A.1.3.2, A.5; EN 1804-1, Annex A.1.3.1, A.1.3.2, A.5	Roof bar – roof support section	-
11	Bending test	ČSN EN 1804-1, Annex A.1.1, A.1.2.1, A5; EN 1804-1, Annex A.1.1, A.1.2.1, A5	Roof bar – roof support section	-
12	Bending test	ČSN EN 1804-1, Annex A.1.1, A.1.2.1, A.1.2.2; EN 1804-1, Annex A.1.1, A.1.2.1, A.1.2.2; ČSN 44 4450, Annex A.1.1, A.1.2.1	Roof support – support section	-
13	Testing at horizontal load of trestle supports	ČSN EN 1804-1, Annex A.1.1, A.1.2.5; EN 1804-1, Annex A.1.1, A.1.2.5	Roof support – support section	-

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CAB number 1322, Testing Laboratory
Těšínská 2962/79b, Předměstí, 746 01 Opava

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
14	Cyclic fatigue tests	ČSN EN 1804-1, Annex A.1.1, A.1.3; EN 1804-1, Annex A.1.1, A.1.3	Roof support – support section	-
15	Lifting and pulling points test	ČSN EN 1804-1, Annex A.4; EN 1804-1, Annex A.4	Roof support - support section	-
16	Turnover resistance test	ČSN EN 1804-1, cl. 4.2; EN 1804-1, cl. 4.2	Roof support - support section	-
17	Tensile and pressure test of pit prop and valve power transmission points - fittings	ČSN EN 1804-1, Annex A.1.2.3; EN 1804-1, Annex A.1.2.3; ČSN 44 4450, Annex A.1.2.2	Roof support - support section	-
18	Extension limit test	ČSN EN 1804-2, Annex A.1.1, A.1.2.1; EN 1804-2, Annex A.1.1, A.1.2.1; ČSN 44 4450, Annex A.2.1, A.2.1.1, A.2.2, A.2.2.1	Roof support-hydraulic pit props and rams	-
19	Yielding test – measurement of slip rate under external load	ČSN EN 1804-2, Annex A.1.1, A.1.2.2; EN 1804-2, Annex A.1.1, A.1.2.2; ČSN 44 4450, Annex A.2.1, A.2.1.1, A.2.2, A.2.2.3; ČSN EN 1804-1, Annex A.1.2.4; EN 1804-1, Annex A.1.2.4	Roof support-hydraulic pit props and rams	-
20	Overload test – static overload	ČSN EN 1804-2, Annex A.1.1, A.1.2.3, A.1.2.3.1; EN 1804-2, Annex A.1.1, A.1.2.3, A.1.2.3.1; ČSN 44 4450, Annex A.2.1, A.2.1.1, A.2.2, A.2.2.2, A.2.2.2.1	Roof support - hydraulic pit props and rams	-

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CAB number 1322, Testing Laboratory
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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
21	Overload test – dynamic overload	ČSN EN 1804-2, Annex A.1.1, A.1.2.3, A.1.2.3.2; EN 1804-2, Annex A.1.1, A.1.2.3, A.1.2.3.2	Roof support - hydraulic pit props and rams	-
22	Eccentric force test – bending test	ČSN EN 1804-2, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.2; EN 1804-2, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.2	Roof support - hydraulic pit props and rams	-
23	Eccentric force test – yielding test	ČSN EN 1804-2, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.3; EN 1804-2, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.3	Roof support - hydraulic pit props and rams	-
24	Durability test	ČSN EN 1804-2, Annex A.1.1, A.1.4; EN 1804-2, Annex A.1.1, A.1.4	Roof support - hydraulic pit props and rams	-
25	Tensile force test of lifting points	ČSN EN 1804-2, Annex A.1.5; EN 1804-2, Annex A.1.5	Roof support - hydraulic pit props and rams	-
26	Pressure test	ČSN EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.3, A.1.3.4, A.1.4, A.1.4.1, A.1.4.3 A.1.5, A.1.5.1, A.1.5.3; EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.3, A.1.3.4, A.1.4, A.1.4.1, A.1.4.3 A.1.5, A.1.5.1, A.1.5.3; ČSN 44 4450, Annex A.3.1, A.3.2, A.3.2.1, A.3.2.3, A.3.2.5; ČSN 44 4440, cl. 32 a)	Powered supports – hydraulic control systems – valves, individual reinforcement – hydraulic mine legs	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
27	Hydraulic pressure pulse test	ČSN EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.5; EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.5	Roof support - Hydraulic control systems – Type A valves	-
28	Impact test	ČSN EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.6; EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.6	Roof support - Hydraulic control systems – Type A valves	-
29	Pressure/flow behaviour test	ČSN EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.7; EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.7; ČSN 44 4450, Annex A.3.2, A.3.2.1, A.3.2.4; ČSN 44 4440, cl. 32 b)	Powered supports – hydraulic control systems – type A valves, individual reinforcement – hydraulic mine legs – valves	-
30	Fatigue test	ČSN EN 1804-3, Annex A.1.1, A.1.3, A.1.3.8, A.1.4, A.1.4.1, A.1.4.6, A.1.5, A.1.5.1, A.1.5.4; EN 1804-3, Annex A.1.1, A.1.3, A.1.3.8, A.1.4, A.1.4.1, A.1.4.6, A.1.5, A.1.5.1, A.1.5.4; ČSN 44 4450, Annex A.3.2, A.3.2.1, A.3.2.6; ČSN 44 4440, cl. 33	Roof support - Hydraulic control systems – valves, individual face support – hydraulic pit props	-
31	Back pressure resistance test	ČSN EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.9, A.1.4, A.1.4.1, A.1.4.4, A.1.5, A.1.5.1, A.1.5.5; EN 1804-3, Annex A.1.1, A.1.3, A.1.3.1, A.1.3.9, A.1.4, A.1.4.1, A.1.4.4, A.1.5, A.1.5.1, A.1.5.5	Roof support - Hydraulic control systems - valves	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
32	Switching test (Switching off)	ČSN EN 1804-3, Annex A.1.1, A.1.4, A.1.4.1, A.1.4.5, A.1.5, A.1.5.1, A.1.5.6; EN 1804-3, Annex A.1.1, A.1.4, A.1.4.1, A.1.4.5, A.1.5, A.1.5.1, A.1.5.6	Roof support - Hydraulic control systems	-
33	Dynamic resistance test of hydraulic pit prop (support ram) – in cooperation with impact valve	ČSN 44 4450, Annex A.2.3, A.2.3.1	Roof supports for coal seams affected by rock bursts	-
34	Static testing pressure test	ČSN EN ISO 1402, cl. 8.1; PN-G-32000:2011	Rubber and plastics hoses and hose assemblies	-
35	Emergency pressure test	ČSN EN ISO 1402, cl. 8.3; PN-G-32000:2011	Rubber and plastics hoses and hose assemblies	-
36	Leakage test	ČSN EN ISO 1402, cl. 8.4; PN-G-32000:2011	Rubber and plastics hoses and hose assemblies	-
37	Tensile test including sample preparation	ČSN EN ISO 6892-1; ČSN EN ISO 377	Steel	-
38	Inspection of external appearance and determination of dimensions	ČSN 11 9008, cl. 4.2; ČSN 44 4450, Annex A.3.1.2	Hydrostatic mechanisms and hydraulic control systems	-
39	Pressure strength test	ČSN 11 9008, cl. 4.4	Hydrostatic mechanical devices	-
40	Functionality test	ČSN 11 9008, cl. 4.7	Hydrostatic mechanical devices	-
41	Safety test under cyclic hydraulic loading	ČSN 11 9008, cl. 4.9	Hydrostatic mechanisms	-
42*	Force load test	PP-42.04.03	Machinery, equipment and parts thereof	-

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CAB number 1322, Testing Laboratory
Těšínská 2962/79b, Předměstí, 746 01 Opava

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
43*	Force load test	ČSN 44 4410-3; PN-87/G-15000/10; ČSN 44 4410-1, cl. 5.3; STN 44 4410-1, cl. 5.3; ČSN 44 4410-4, cl. 5.2; STN 44 4410-4, cl. 5.2; DIN 21530-4, cl. 4.1.1.2.2.5, 4.1.2.2.2; UNE 22725, cl. 4.2.3; PN-G-15026:2017-4	Steel support for use in mines	D
44*	Force loading test	DIN 21530-4, cl. 4.1.3.2.2, 4.1.3.2.3	Steel mine studdles	D
45*	Force loading test	ČSN EN ISO 898-1, cl. 9.2, 9.7; ČSN EN ISO 898-2, cl. 9.1	Screws and nuts	D
46*	Force loading test	PN-G-15533, cl. 4.3.5	Mechanical legs	D
47*	Force loading test – deflection measurement	PN-G-46696, cl. 3.6.4	Shackles	D
48*	Force loading test	ČSN EN ISO 1120, cl. 7	Mechanical joints of conveyor belts	D
49*	Force loading test	ČSN 02 3203; ČSN 02 3215:1987; DIN 22252; DIN 20637, cl. 8.4, 8.5; DIN 685-3, cl. 7.4, 7.6	Mine chains	D
50*	Force loading test	PP-42.01.03 (PN-G-15541; PN-G-15542; PN-G-15543; PN-G-15544; PN-G-15545; ON 44 4418:1982)	Articulated steel mining joists	D
51*	Force loading test	SN EN 13155+A2, cl. 5.2.3.4.1	Permanent lifting magnets	D
52	Force load test with yield	ČSN 44 4410-4, cl. 5.1; STN 44 4410-4, cl. 5.1; DIN 21530-4, cl. 4.1.2.2.3; UNE 22725, cl. 4.2.2; PN-G-15026:2017-4	Steel supports	D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
53	Force load test with slippage	PN-G-15533 cl. 4.3.4, 4.3.6, 4.3.7	Mechanical legs	D
54	Determination of diameter	ČSN 02 4301:1974, cl. 32, 54, 55; ČSN EN 10218-2	Steel rope wires	-
55	Enumeration of bends	ČSN 02 4301:1974, cl. 36, 54, 55; ČSN ISO 7801	Steel rope wires	-
56	Enumeration of twists	ČSN 02 4301:1974, cl. 37, 54, 55; ČSN ISO 7800	Steel rope wires (up to wire Ø 5mm)	-
57	Determination of total bearing capacity	ČSN 02 4301:1974, cl. 39, 40, 41, 43, 44; ČSN EN 12385-1+A1, cl. 6.4	Steel wire linear ropes	-
58	Determination of diameter	ČSN 02 4301:1974, cl. 31; ČSN EN 12385-1+A1, cl. 6.3	Steel wire ropes and ropes with eyes	-
59	Determination of actual load-bearing capacity	ČSN 02 4481:1981, cl. 21; ČSN 02 4468, cl. 5; ČSN EN 13411-3:2023	Steel ropes with eyes	-
60	Determination of dimensions	ČSN 02 4481:1981, cl. 25, 26; ČSN EN 13411-3:2023	Eyes of steel wire ropes	-
61	Determination of overlap	ČSN 02 4481:1981, cl. 10; ČSN EN 13411-3:2023	Ferrules of wire ropes with eyes	-
62	Determination of dimensions	ČSN 02 4481:1981, cl. 23, 24; ČSN EN 13411-3:2023	Sleeves of wire ropes with eyes	-
63*	Operating force measurement	PP-42.04.07 (ČSN EN 894-3+A1); Gov. Reg. No. 361/2007 Coll., Annex No. 8 and 9	Mobile working machines, stationary machines and equipment	-
64	Determination of mass of components	ČSN 44 4410-2, cl. 4.1	Mining steel reinforcement assemblies	-
65	Determination of weight of parts	ČSN 44 4410-1, cl. 5.1; STN 44 4410-1, cl. 5.1	Profile bars	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
66	Determination of weight of parts	PP-42.01.02, cl. 4.2.4 (ON 44 4418:1982)	Articulated steel mine joists	-
67*	Measurement of dimensions	ČSN 44 4410-1, cl. 5.2; STN 44 4410-1, cl. 5.2	Profile bars	-
68*	Measurement of dimensions	ČSN 44 4410-2, cl. 4.2, 4.3, 4.4	Mining steel reinforcement assemblies	-
69*	Measurement of dimensions	ČSN 44 4410-3, cl. 4.1; PN-G-15011:2011	Connecting parts	-
70*	Measurement of dimensions	DIN 22252, cl. 6.4.1; DIN 20637, cl. 8.3; DIN 685-3, cl. 7.3	Chains	-
71*	Measurement of dimensions	PP-42.01.02, cl. 4.2.3 (ON 44 4418:1982)	Articulated steel mine joists	-
72-76	Reserved			
77	Load tests	CONSOL Inc./rev. 1994 - Section B	Mechanised reinforcement section	-
78	Design measurement of permanent deformation	CONSOL Inc./rev. 1994 - Section C; ČSN EN 1804-1, Annex B; EN 1804-1, Annex B	Roof support	-
79	Charpy pendulum impact test including sample preparation	ČSN ISO 148-1; ČSN EN ISO 377	Metallic materials	-
80	Load tests	GOST 31561, cl. 13.1, 13.5, 13.11, 13.12, 13.13, 13.14, 13.15, 13.16, 13.17, 13.20, 13.21, 13.22	Mechanised reinforcement section	-
81	Test for resistance to simulated solar radiation	DIN 75220; PV 1211; PR 306.4; MIL-STD-810G, Meth. 505.5 Procedure II; VDA 230-219	Mechanical and electrotechnical parts and assemblies	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
82	Environmental testing	ČSN EN 60068-2-1; ČSN EN 60068-2-2; ČSN EN 60068-2-14; ČSN EN 60068-2-67; ČSN EN 60068-2-78; PV 1200; PV 2005, variant A; ČSN EN ISO 9227; cl. 5.2.2	Mechanical and electrotechnical parts and assemblies, surface coatings and protections	-
83	Environmental testing	ČSN EN ISO 6270-2; ČSN EN ISO 11997-1, Annex A, B	Paints and varnishes	-
84	Damage rating test	ČSN EN ISO 4628-1; ČSN EN ISO 4628-2; ČSN EN ISO 4628-3; ČSN EN ISO 4628-4; ČSN EN ISO 4628-5; ČSN EN ISO 4628-6; ČSN EN ISO 4628-8; ČSN EN ISO 4628-10	Paints and varnishes and organic coatings, metallic and other inorganic coatings	-

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 valid edition of the specified procedure is used (including any changes)

³ degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

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2. Workplace Čermná ve Slezsku

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Environmental testing	ČSN EN 60068-2-1; ČSN EN 60068-2-2; ČSN EN IEC 60068-2-11; ČSN EN 60068-2-14; ČSN EN 60068-2-30; ČSN EN IEC 60068-2-52; ČSN EN 60068-2-67; ČSN EN 60068-2-78; ČSN EN ISO 9227; LV 124, p. 9.1, K-01; LV 124, p. 9.2, K-02; LV 124, p. 9.3, K-03; LV 124, p. 9.4, K-04; LV 124, p. 9.6, K-06; LV 124, p. 9.7, K-07; LV 124, p. 9.8, K-08; LV 124, p. 9.9, K-09; LV 124, p. 9.14, K-014	Mechanical and electrotechnical parts and assemblies, surface coatings and protections	-
2	Environmental testing	PV 1200; PV 1209; PV 1210; PV 2005, variant A; GMW 3286; GMW 14124, cycle M	Road vehicle components	-
3	Environmental testing	ČSN EN ISO 6270-2; ČSN EN ISO 11997-1, Annex A, B; Qualicoat bod. 2.4.2.; Qualicoat bod. 2.11	Paints and varnishes	-
4	Environmental testing	ČSN EN ISO 16701	Corrosion of metals and alloys	-
5	Reserved			
6	Free fall test	LV 124, p. 8.1, M-01	Mechanical properties of the object	-

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

TECHNICKÉ LABORATOŘE OPAVA, akciová společnost

CAB number 1322, Testing Laboratory
Těšínská 2962/79b, Předměstí, 746 01 Opava

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
7	Cyclic life tests – temperature loading	LV 124, p. 11.1, L-01; LV 124, p. 11.2, L-02; LV 124, p. 11.3, L-03	Mechanical and electrotechnical parts and assemblies	-
8	Damage rating test	ČSN EN ISO 10289	Metallic and other inorganic coatings	-
9	Determination of thickness	ČSN EN ISO 2808, met 7C	Coatings	-
10	Determination of thickness	ČSN EN ISO 2178; p. 4.4	Protective coatings, inorganic, metallic and other coatings	-
11	Determination of the degree of degradation	ČSN EN ISO 4628-1; ČSN EN ISO 4628-2; ČSN EN ISO 4628-3; ČSN EN ISO 4628-4; ČSN EN ISO 4628-5; ČSN EN ISO 4628-6; ČSN EN ISO 4628-8; ČSN EN ISO 4628-10	Paints and varnishes and organic coatings; metallic and other inorganic coatings	-
12	Cross-cut test	ČSN EN ISO 2409	Paints and varnishes	-
13	Rapid deformation test (impact resistance)	ASTM D 2794	Paints and varnishes	-
14	Determination of gloss value at 60°	ČSN EN ISO 2813	Paints and varnishes without metal pigments	-
15	Cupping test of resistance to cracking	ČSN EN ISO 1520	Paints and varnishes	-
16	Bend test (cylindrical mandrel)	ČSN EN ISO 1519	Paints and varnishes	-
17	Determination of resistance to filiform corrosion	ČSN EN ISO 4623-2	Paints and varnishes	-

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 valid edition of the specified procedure is used (including any changes)

³ degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

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The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

Explanations:

PP	Internal Working Procedure of the Testing Laboratory
GR	Government Regulation
PR	BMW Group test procedure
PN	Polish standard
DIN	German standard
UNE	Spanish standard
PV	Volkswagen Group test procedure
ASTM	American Society for Testing and Materials
LV	Standard for testing electrical and electronic components in motor vehicles
GMW	General-Motors Worldwide Engineering Standards
CONSOL	Test and Inspection Requirements for Mechanized Reinforcements prepared by CONSOL Inc. Maintenance Engineering Department
Qualicoat	Qualicoat standard for Qualicoat certification testing
GOST	Russian standard
VDA	German Automotive Industry Technical Standard

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "