

**The Appendix is an integral part of
Certificate of Accreditation No. 223/2021 of 12/04/2021**

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

ENVIFORM a.s.
Testing Center
Průmyslová 1045, Staré Město, 739 61 Třinec

Testing laboratory locations:

- | | |
|--|---|
| 1. Central Mechanical Testing Laboratory (CZm) | Průmyslová 1045, Staré Město, 739 61 Třinec |
| 2. Rolling Plant Mechanical Testing Laboratory (CZv) | Průmyslová 711, Kanská, 739 61 Třinec |
| 3. Drawing Plant Mechanical Testing Laboratory (CZt) | Tovární 1688, 686 02 Staré Město |
| 4. Tube Rolling Mill Mechanical Testing Laboratory (CZo) | Výstavní 1132, Vítkovice, 706 02 Ostrava |
| 5. Mechanical Testing Laboratory Bohumín (CZb) | Jeremenkova 66, Pudlov, 735 51 Bohumín |

*The laboratory has a flexible scope of accreditation permitted as detailed in the Annex.
Updated list of activities provided within the flexible scope of accreditation is available from the
Laboratory Quality Manager.*

1. Central Mechanical Testing Laboratory (CZm)

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
	Mechanical tests		
1 to 100	Reserved		
101	Tensile test at ambient temperature	PPo CZ-10/305, (ČSN 42 0330, ČSN EN ISO 4136, ČSN EN ISO 6892-1, ASTM A 370, ASTM E 8)	Metallurgical and metal materials
102	Impact bend test	PPo CZ-10/306 (ČSN 42 0385, ČSN EN ISO 148-1, DIN 50115, ASTM E 23)	Metallurgical and metal materials
103	Upsetting test	PPo CZ-10/307 (ČSN 42 0426, ČSN EN 10263-1)	Metallurgical and metal materials
104	Brinell hardness test	PPo CZ-10/308 (ČSN EN ISO 6506-1, ASTM E 10)	Metallurgical and metal materials
105	Vickers hardness test	PPo CZ-10/309 (ČSN EN ISO 6507-1)	Metallurgical and metal materials
106	Rockwell hardness test	PPo CZ-10/310 (ČSN EN ISO 6508-1)	Metallurgical and metal materials

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
107	Tensile test at temperatures higher than room temperature	PPo CZ-10/312 (ČSN EN ISO 6892-2, ASTM E 8)	Metallurgical and metal materials
108	Hardenability test	PPo CZ-10/313 (ČSN EN ISO 642, ASTM A 255-02 e1)	Metallurgical and metal materials

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)

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
101, 102, 103, 104, 105, 106, 107, 108

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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2. Rolling Plant Mechanical Testing Laboratory (CZv)

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
	Mechanical tests		
109 to 200	Reserved		
201	Tensile test at ambient temperature	PPo CZ-10/305, (ČSN EN ISO 6892-1)	Metallurgical and metal materials
202	Upsetting test	PPo CZ-10/307 (ČSN 42 0426, ČSN EN 10263-1)	Metallurgical and metal materials
203	Brinell hardness test	PPo CZ-10/308, (ČSN EN ISO 6506-1)	Metallurgical and metal materials
	Metallographic tests		
204	Determination of microstructure	PPo CZ-10/316 (SEP 1520)	Metallurgical and metal materials
205	Determination of defects	PPo CZ-10/314 (ČSN 42 0015 ČSN EN ISO 16120-1)	Metallurgical and metal materials
206	Determination of depth of decarburization	PPo CZ-10/321 (ČSN EN ISO 3887 ČSN EN ISO 16120-1, ČSN EN ISO 16120-2, ČSN EN ISO 16120-4)	Metallurgical and metal materials

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Annex:

Flexible scope of accreditation

Ordinal numbers of tests
201, 202, 203, 204, 205, 206

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3. Drawing Plant Mechanical Testing Laboratory (CZt)

Tests:

Ordinal number	Test procedure/ method name	Test procedure/ method identification	Tested object
	Mechanical tests		
207 to 300	Reserved		
301	Tensile test at ambient temperature	PPo CZ-10/305 (ČSN EN ISO 6892-1)	Metallurgical and metal materials
302	Brinell hardness test	PPo CZ-10/308 (ČSN EN ISO 6506-1)	Metallurgical and metal materials
303	Rockwell hardness test	PPo CZ-10/310 (ČSN EN ISO 6508-1)	Metallurgical and metal materials

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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)

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
301, 302, 303

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4. Tube Rolling Mill Mechanical Testing Laboratory (CZo)

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
	Mechanical tests		
304 to 400	Reserved		
401	Tensile test at ambient temperature	PPo CZ-10/305 (ČSN EN ISO 6892-1, ASTM A 370, ASTM E 8)	Metallurgical and metal materials
402	Impact bend test	PPo CZ-10/306 (ČSN ISO 148-1, DIN 50115, ASTM A 370, ASTM E 23)	Metallurgical and metal materials
403	Brinell hardness test	PPo CZ-10/308 (ČSN EN ISO 6506-1, ASTM E 10)	Metallurgical and metal materials
404	Rockwell hardness test	PPo CZ-10/310 (ČSN EN ISO 6508-1)	Metallurgical and metal materials
405	Flattening test	PPo CZ-10/317 (ČSN EN ISO 8492; ASTM A 530)	Metallurgical and metal materials
406	Drift-expanding test	PPo CZ-10/318 (ČSN EN ISO 8493)	Metallurgical and metal materials
407	Ring-expanding test	PPo CZ-10/319 (ČSN EN ISO 8495)	Metallurgical and metal materials
408	Ring tensile test	PPo CZ-10/320 (ČSN EN ISO 8496)	Metallurgical and metal materials

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Annex:

Flexible scope of accreditation

Ordinal numbers of tests
401, 402, 403, 404, 405, 406, 407, 408

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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5. Mechanical Testing Laboratory Bohumín (CZb)

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
	Mechanical tests		
409 to 500	Reserved		
501	Tensile test at ambient temperature	PPo CZ-10/305 (ČSN EN ISO 6892-1)	Metallurgical and metal materials
502	Reverse bend test	PPo CZ-10/332 (ČSN ISO 7801)	Metallurgical and metal materials
503	Simple torsion test	PPo CZ-10/333 (ČSN ISO 7800)	Metallurgical and metal materials
504	Measurement of the diameter (dimensions) of wires and ropes	PPo CZ-10/336 (ČSN EN ISO 6892-1)	Metallurgical and metal materials

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Annex:

Flexible scope of accreditation

Ordinal numbers of tests
501, 502, 503, 504

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

Explanatory notes and abbreviations:

ASTM - American Society for Testing and Materials (US standard)

PPo CZ - Working procedure of the Laboratories Centre

SEP - Stahl-Eisen-Prüfblätter (German standard)