



EA MLA Signatory
Český institut pro akreditaci, o.p.s.
Olšanská 54/3, 130 00 Praha 3

issues

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

CERTIFICATE OF ACCREDITATION

No. 171/2024

ČZ a.s.
with registered office Sluneční náměstí č.p. 2540/5, 158 00 Praha 5,
Company Registration No. 25181432

for the Testing Laboratory No. 1285
Testing Laboratories Department

Scope of accreditation:

Tests in the field of mechanical, metallographic and chemical testing of materials, determination of technical purity 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 Conformity Assessment 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.: 623/2023 of 20. 11. 2023, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **24. 10. 2028**

Prague: 11. 4. 2024




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

**Appendix is an integral part of
Certificate of Accreditation No. 171/2024 of 11/04/2024**

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

ČZ a.s.

CAB number 1285, Testing Laboratories Department
Tovární 202, 386 15 Strakonice

Detailed information on activities within the scope of accreditation (determined analytes) is given in the section „Specification of the scope of accreditation“.

Tests:

| Ordinal number ¹ | Test procedure / method name | Test procedure / method identification ² | Tested subject | Degrees of freedom ³ |
|-----------------------------|---|--|-------------------------------------|---------------------------------|
| 1 | Vickers hardness test | ČSN EN ISO 6507-1; ČSN EN ISO 6507-4 | Metallic materials | - |
| 2 | Brinell hardness test | ČSN EN ISO 6506-1; ČSN EN ISO 6506-4 | Metallic materials | - |
| 3 | Rockwell hardness test | ČSN EN ISO 6508-1; ČSN ISO 3738-1 | Metallic materials | - |
| 4 | Knoop hardness test | ČSN EN ISO 4545-1; ČSN EN ISO 4545-4 | Metallic materials | - |
| 5 | Measurement of layer depth of heat and chemical heat-treated steel | ČSN EN ISO 18203; DIN 50190:1978, Part 1; DIN 50190:1979, Part 2, 3 | Metallic materials | - |
| 6 | Tensile test at ambient temperature | ČSN EN ISO 6892-1 | Metallic materials | - |
| 7 | Charpy impact test | ČSN EN ISO 148-1, excl. KV ₈ , KU ₈ and excl. Annex C; ČSN EN 10045-1:1998 | Metallic materials | - |
| 8 | Strength tests of chains | IPMZ 1 (ČSN EN ISO 6892-1) | Roller, sleeve-type and link chains | - |
| 9 | Strength tests of welds | IPMZ 2 (ČSN EN ISO 6892-1) | Turbocharger rotors | - |
| 10 | Force measurement in loading | IPMZ 3 (ČSN EN ISO 6892-1) | Parts, blanks and joints | - |
| 11 | Metallographic determination of non-metallic intrusions | ČSN ISO 4967; DIN 50602:1985, procedure M | Steel | - |
| 12 | Determination of layer depth of heat and chemical and heat-treated steel by metallographic method | ČSN 42 0448:1985, excl. chap. III | Steel | - |
| 13 | Metallographic determination of depth of decarburization | ČSN EN ISO 3887, cl. 5.2 | Steel | - |
| 14 | Evaluation of structure | ČSN 42 0461:1975; ČSN EN ISO 945-1; ASTM A247 | Cast iron | - |



**Appendix is an integral part of
Certificate of Accreditation No. 171/2024 of 11/04/2024**

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

ČZ a.s.

CAB number 1285, Testing Laboratories Department

Tovární 202, 386 15 Strakonice

| Ordinal number ¹ | Test procedure / method name | Test procedure / method identification ² | Tested subject | Degrees of freedom ³ |
|-----------------------------|--|--|--|---------------------------------|
| 15 | Microscopic measurement of coating thickness | ČSN EN ISO 1463 | Metallic and oxide coating | - |
| 16 | Microscopic evaluation of the carbide structure in steel according to image series | SEP 1520 | Steel | - |
| 17 | Determination of elements by optical emission spectrometry | IPS 1 (Bruker company name) | Ferrous metals and aluminium and copper alloys | - |
| 18 | Technical cleanliness determination – by gravimetry | ISO 16232, excl. cl. 7.5, 9.3; VDA 19.1, excl. cl. 6.5, 8.3 | Metallic and non-metallic components for automotive applications | - |
| 19 | Technical cleanliness determination – microscopically | ISO 16232, excl. cl. 7.5, 9.2; VDA 19.1, excl. cl. 6.5, 8.2 | Metallic and non-metallic components for automotive applications | - |

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)

³ the laboratory does not apply a flexible approach to the scope of accreditation

Specification of the scope of accreditation:

| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes) |
|---------------------|--|
| 17 | <p>Ferrous metals: C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, B, Bi, Ce, Co, Mg, Nb, Pb, Sb, Sn, Ta, La, Ti, V, W, Zn, Zr, Se</p> <p>Aluminium alloys: Si, Fe, Cu, Mn, Mg, Cr, Ni, Zn, Ti, Ag, B, Ba, Be, Bi, Ca, Cd, Co, Ga, In, Li, Mo, Na, P, Pb, Sn, Sr, V, Zr, Sb, Hg</p> <p>Copper alloys: Zn, Pb, Sn, P, Mn, Fe, Ni, Si, Mg, Cr, Al, S, As, Be, Ag, Co, Bi, Cd, Sb, Zr, Ti, Au, C, Nb, Se, Te</p> |



**Appendix is an integral part of
Certificate of Accreditation No. 171/2024 of 11/04/2024**

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

ČZ a.s.

CAB number 1285, Testing Laboratories Department
Tovární 202, 386 15 Strakonice

Explanations:

- IPMZ - Internal testing procedure of mechanical laboratory
- IPS - Internal testing procedure of spectral analysis
- SEP - Stahl-Eisen-Prüfblatt des Vereins Deutscher Eisenhüttenleute (specification issued by the German iron metallurgy expert association)
- VDA - Verband der Automobilindustrie e. V. (specification issued by the German Association of the Automotive Industry)

