

**The Appendix is an integral part of
Certificate of Accreditation No. 177/2024 of 17/04/2024**

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

TŘINECKÉ ŽELEZÁRNY, a. s.
CAB number 1156, Metallographic Laboratory
Průmyslová 1000, Staré Město, 739 61 Třinec

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of macrostructure	PPo TŽ-TT-10/04 (ČSN 42 0467; ČSN EN 13674-1+A1; ISO 4968; ISO 4969; ASTM E 381-22; UIC 860; CN 12-16D)	Metals	-
2	Determination of microstructure	PPo TŽ-TT-10/05 (ČSN 42 0469; ČSN EN ISO 945-1; ČSN EN 13674-1+A1; ČSN EN 13674-2; ISO 5949; ASTM A 247-19; SEP 1520)	Metals	-
3	Determination of defects	PPo TŽ-TT-10/03 (ČSN 42 0015; ČSN 42 1240; ISO 4969)	Metals	-
4	Determination of non-metallic intrusions	PPo TŽ-TT-10/06 (ČSN 42 0471:1984; ČSN EN 10247; ČSN ISO 4967; DIN 50602:1985; ASTM E 45-18a; CN 12-16D; SEP 1571)	Metals	-
5	Determination of grain size	PPo TŽ-TT-10/07 (ČSN 42 0462; ČSN EN ISO 643; DIN 50601:1985; ASTM E 112-13; ZFN 5016:2014)	Metals	-
6	Determination of depth of decarburization	PPo TŽ-TT-10/10 (ČSN 42 0449:1978; ČSN EN ISO 3887; ČSN EN 13674-1+A1; ČSN EN 13674-2; DIN 50192:1977; BS 6617:Part 1:1985; DAF KEUR 00820-205)	Metals	-

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
7	Determination of depth of heat treated and heat and chemically treated layers	PPo TŽ-TT-10/09 (ČSN EN ISO 18203)	Metals	-
8	Hardness test	PPo TŽ-TT-10/08 (ČSN EN ISO 6507-1; ČSN EN ISO 18265)	Metals	-

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

Explanations:

- ASTM - American Society for Testing and Materials (American Standard)
- BS - British Standard
- CN - North America's Railroad
- ČSN - Czech Standard
- DAF - Van Doorne's Aanhangwagen Fabriek (Truc Manufacturing Company Standard)
- DIN - Deutsche Industrie-Norm (German Standard)
- EN - European Standard
- ISO - International Organization for Standardization
- PPo TŽ-TT - Working Procedures (Internal Test Procedure prepared by the Metallographic Laboratory)
- SEP - Stahl-Eisen-Prüfblatt (German Standard)
- UIC - Union Internationale des Chemins de Fer (International Union of Railways)
- ZFN (ZF) - Zahnradfabriknorm (Gear Factory Standard)