

## List of Test procedure/method identification – 01.06.2016

Accredited entity according to ČSN EN ISO/IEC 17025:2005:

**VÍTKOVICE TESTING CENTER s.r.o.**  
Testing Laboratories  
Pohraniční 584/142, Hulváky, 703 00 Ostrava

### 2 Metallographic Testing Laboratory

*The Laboratory is qualified to update standards identifying the test procedures.*

*The laboratory applies a flexible scope of accreditation permitted as detailed in the Annex.*

*Updated list of activities provided within the flexible scope of accreditation is available at the laboratory from the Quality Manager.*

#### Tests:

Ordinal number <sup>1)</sup>	Test procedure/method name	Test procedure/method identification	Tested object
201 *	Testing of microstructure	QI – VTC.20 GEN – 0020 (ČSN 42 0015, ČSN 42 1240, ČSN 42 0461, ČSN 42 0469, ČSN 03 8137, ČSN EN ISO 945-1, ČSN EN ISO 1463, ČSN EN ISO 17639 ČSN EN ISO 15614-2 ČSN EN ISO 15614-7 ISO 9042, ASTM A 247, ASTM E 562, ASTM E 1268, ASTM A923 method A, GOST 8233, GOST 5640 GOST 3443)	Metallurgical and engineering products based on alloys of iron and non-ferrous metals
202	Determination of ferritic/austenitic grain size	QI – VTC.20 GEN – 0021 (ČSN EN ISO 643, ČSN EN ISO 2624, DIN 50601:1985, ASTM E 1382, ASTM E 112, GOST 5639) QI-VTC.20 ASME-0002	Metallurgical and engineering products based on alloys of iron and non-ferrous metals
203	Determination of the content of non-metallic inclusions in steel	QI – VTC.20 GEN – 0022 (ČSN ISO 4967, ASTM E 45 p. 12 – method A, p. 15 – method D, DIN 50 602:1985 p. 8.2.1- method M, p. 8.2.2 – method K,	Metallurgical and engineering products based on alloys of iron

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		GOST 1778 p. 3.1 – method Š1, Š4)	
204	Determination of depth of thermally and thermochemically treated layers	QI – VTC.20 GEN – 0023 (ČSN EN ISO 2639, DIN 50190-3)	Metallurgical and engineering products based on alloys of iron
205	Determination of depth of decarburization in steel	QI – VTC.20 GEN – 0024 (ČSN EN ISO 3887, ASTM E 1077)	Metallurgical and engineering products based on alloys of iron
206*	Testing of microstructure using replicas	QI – VTC.20 GEN – 0025 (ISO 3057, ASTM E 1351, DIN 54 150:1977)	Metallurgical and engineering products based on alloys of iron
207*	Testing of macrostructure by sulphur prints	QI – VTC.20 GEN – 0026 (ISO 4968, ASTM E 1180, DBS 918 002, UIC 810-1, UIC 811-1)	Metallurgical and engineering products based on alloys of iron
208*	Testing of macrostructure by etching	QI – VTC.20 GEN – 0027 (ČSN 42 0467, ISO 4969, ASTM E 340, ASTM E 381, GOST 10243 DBS 918 002)	Metallurgical and engineering products based on alloys of iron and non-ferrous metals
209	Detection of defects in weld joints	QI – VTC.20 GEN – 0028 (ČSN 07 0622, ČSN EN ISO 15614-1, ČSN EN ISO 15614-2, ČSN EN ISO 15614-7, ČSN EN ISO 15614-12, ČSN EN ISO 14555, ČSN EN 764-4, ČSN EN ISO 17639, ČSN EN 12797 ČSN EN 12952-5, ČSN EN 12952-6, ASME Code IX, ed. 2013 p. QW 183, 184, 192,193, 196,197	

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Ordinal number <sup>1)</sup>	Test procedure/method name	Test procedure/method identification	Tested object
209		ASME Code IX, ed. 2015 p. QW 183, 184, 192, 193, 196,197	Metallurgical and engineering products based on alloys of iron and non-ferrous metals
210	Testing of resistance of corrosion-resistant steel to intergranular corrosion	QI – VTC.20 GEN – 0029 (ČSN EN ISO 3651-2, ASTM A 262 (method E), GOST 6032 (method AM, method AMU) QI-VTC.20 ASME-0001	Metallurgical and engineering products based on alloys of iron
211	Testing of macrostructure by means of fractures	QI – VTC.20 GEN – 0030 SEP 1584, PN-60/H-04509, TPZ-M22-71)	Metallurgical and engineering products based on alloys of iron
212	Testing of resistance to hydrogen-induced cracking (HIC)	QI-VTC.20 GEN-0031 (ČSN EN 10229, NACE TM0284, API 5L)	Metallurgical and engineering products based on alloys of iron
213	Testing of resistance of steel subjected to tensile or bending stresses to cracking in hydrogen sulphide environment (SSC-A, SSC-B)	QI-VTC.20 GEN-0032 QI-VTC.20 GEN-0033 (NACE TM0177, API 5L, COVENIN 3226-1)	Metallurgical and engineering products based on alloys of iron
214	Testing of corrosion resistance	QI-VTC.20 GEN-0034 (ASTM G28 method A, ASTM G48 method A, ASTM A923 method C)	Metallurgical and engineering products based on alloys of iron

<sup>1)</sup> Asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
<b>201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214</b>

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.