Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2005
Registration number: **L 085**

of **Element Materials Technology Rotterdam B.V.**
Laboratory

This annex is valid from: **14-01-2019** to **01-04-2020** Replaces annex dated: **17-05-2017**

Location(s) where activities are performed under accreditation

Head Office

Kapitein Nemostraat 12
7821 AC
Emmen
The Netherlands

Location	Abbreviation/ location code
Kapitein Nemostraat 12 7821 AC Emmen The Netherlands	EM
On location of customer	L

No.	Material or product	Type of activity[1]	Internal reference number	Location
a	Metals	Heat treatment temperature range max. 1373 K with the exception of activity 18	NL-M 18 in-house method	EM
1	Rolled-, forged-, casted products and weldments of ferrous, non-ferrous metals or plastics.	Tensile test at room temperature (RT) (up to1000 kN)	NL-M 01/1 in accordance with EN 10164, ASTM E8/E8M; ASTM A370; AWS D1.1; ASME IX; API 1104, EN-ISO 5178, ISO 4136, ISO 6892-1	EM

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas
Director of Operations

[1] If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the RvA-BR010 list (https://www.rva.nl/en/document/download/BR010-lijst).
If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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No.	Material or product	Type of activity[1]	Internal reference number	Location
2	Rolled-, forged-, casted products and weldments of ferrous, non-ferrous metals	Charpy impact test (energy 300 J and 450 J, temperature range 77 K to 505 K)	NL-M 02 in accordance with ISO 148, EN-ISO 9016, ASTM A370, ASTM E23	EM
3		Vickers hardness test (load between 1 to 30 kg)	NL-M 03/1 in accordance with ASTM E92; EN-ISO 6507/1; ISO 9015-1	EM
4		Rockwell hardness test	NL-M 03/2 in accordance with ASTM E18; EN-ISO 6508-1	EM
5		Brinell hardness test (load max. 250 kg)	NL-M 03/3 in accordance with ASTM E10; EN-ISO 6506-1	EM
6	Rolled-, forged-, casted products and weldments of ferrous, non-ferrous metals or plastics.	Bend test (load max. 500 kN)	NL-M 04 in accordance with AWS D1.1, ASTM A370, ASME IX, API 5L, API 1104, ISO 7438, ISO 5173	EM
7	Pipe of ferrous and non-ferrous metals	Flattening test (load max. 500 kN)	NL-M 05 in accordance with ASTM A106; A370, A450, A500, A512, A523, A524, A530, A999, EN–ISO 8492	EM
8		Ring expanding test (load max. 500 kN)	NL-M 06 in accordance with EN–ISO 8493, EN–ISO 8494, EN–ISO 8495	EM
9	Weldments in ferrous and non-ferrous metals	Fillet weld break test (load max. 500 kN)	NL-M 07 in accordance with ASME IX; AWS D1.1, D1.2, D1.6 EN-ISO 9017, EN-ISO9606	EM
10		Nick-break test (load max. 500 kN)	NL-M 08 in accordance with API 1104, API 5L	EM
11	Pipe and plate of metal	Drop Weight Tear Test (load max. 23 kJ, temperature range 77K - 505K)	NL-E/M 09 in accordance with API RP 5L3, ASTM E436, EN 10274	EM

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No.	Material or product	Type of activity[1]	Internal reference number	Location
12	Ferritic steel	Drop Weight Test temperature range 77K - 505K	NL-E/M 10 in accordance with ASTM E208	EM
13		CTOD (load max. 500 kN), temperature range 77K tot 300K)	NL-M 11/2 en 11/3 in accordance with BS 7448: part 1, BS EN ISO 15653	EM
14	Rolled-, forged-, casted products and weldments of ferrous, non-ferrous metals.	Macroscopic examination	NL-M 13 in accordance with ASTM A604, ASME IX, AWS D1.1, D1.2, D1.6 , EN-ISO 5817, ISO 17639	EM
15	Rolled-, forged-, casted products and weldments of ferrous, non-ferrous metals.	Microscopic examination, including preparation of replica's on-site (equivalent to BS 5166)	NL-M 14 NL-M 19 in accordance with ASTM E3, E407, E112, E340, E45, E562, E1077; ASTM A923 method A EN-ISO 1463, EN 1321 EN-ISO 3887; ISO 17639	EM, L
16	Rolled-, forged-, casted products and weldments of austenitic, ferritic or austenitic / ferritic (duplex) stainless steel	Ferrite measurement: magne gage	NL-M 15/1 in-house method	EM
17		Ferrite determination using a Feritscope	NL-M 15/2 in-house method	EM
18	Rolled-, forged-, casted products and weldments of steels	Quantitative analysis by Optical Emission Spectrometry (OES)	NL-E/M 17 in-house method	EM, L
19	Rolled-, forged-, casted products and weldments of stainless steels and Ni-alloys	Corrosion test (Streicher test)	NL-COR 04 in accordance with ASTM A262 practice B, ASTM G28, Method A	EM

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No.	Material or product	Type of activity[1]	Internal reference number	Location
20	Rolled-, forged-, casted products and weldments of stainless steels and Ni-alloys	Corrosion test (Huey test)	NL-COR 05 in accordance with ASTM A262 practice C, EN-ISO 3651-1	EM
21		Corrosion test (Strauss test)	NL-COR 06 in accordance with ASTM A262 practice E	EM
22		Corrosion test (Strauss test)	NL-COR 07 in accordance with EN ISO 3651-2, Method A, B, C	EM
23		Corrosion test (pitting susceptibility test in ferric-chloride solution)	NL-COR 08 in accordance with ASTM A923 method C, ASTM G48 Method A	EM