

Annex to declaration of accreditation (scope of accreditation)  
Normative document: EN ISO/IEC 17025:2017  
Registration number: **L 150**

of **Tata Steel IJmuiden B.V.**  
**Product Analysis**

This annex is valid from: **21-09-2023** to **01-08-2027**

Replaces annex dated: **26-04-2023**

**Location(s) where activities are performed under accreditation**

**Head Office**

Wenkebachstraat 1  
1951 JZ  
Velsen-Noord  
The Netherlands

<b>Location</b>	<b>Abbreviation/ location code</b>
Waterlaboratorium locatie 3F-22 Poort Rooswijk Breedbandweg 1 1951 MC Velsen-Noord Nederland	VE 3F-22-W
Klassieke Analyse locatie 3F-22 Poort Rooswijk Breedbandweg 1 1951 MC Velsen-Noord Nederland	VE 3F-22-K
Mechanical Testing, locatie 3F-22 Poort Rooswijk Breedbandweg 1 1951 MC Velsen-Noord Nederland	VE 3F-22-M
Proces Controle, locatie 4C-01 Poort Rooswijk Breedbandweg 1 1951 MC Velsen-Noord Nederland	VE 4C-01

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

J.A.W.M. de Haas

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Location	Abbreviation/ location code
Monsterneming, locatie 3F-06 Poort Rooswijk Breedbandweg 1 1951 MC Velsen-Noord Nederland	VE 3F-06

No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
<b>Preparation</b>				
a	Iron ore	Preparation for the purpose of IVN 1009, IVN 1011, IVN 1013, IVN 4001, IVN 4025, IVN 4032, IVN 5002 and IVN 5003	IVN 5001 (MN/093) ISO 3082	VE 3F-06
b	Steel, unalloyed and low alloyed	Preparation of samples for the purpose of IVN 1019, IVN 4005 and IVN 4006	IVN 5006 (MN/223, MN/204) ISO 14284	VE 3F-06
c	Coal	Preparation of samples for the purpose of IVN 1113, IVN 1114, IVN 1115, IVN 1116, IVN 1117, IVN 1118, IVN 1140, IVN 5004 and IVN 5005	IVN 5008 (MN/094) ISO 13909-4	VE 3F-06
d	Steel	Preparation of the tension rods A80 for the purpose of IVN 6001	IVN 6001 (WVS 301, WVS 302, BVS 201, BVS 301, BVS 302, BVS 303) ISO 6892-1, NEN-EN-ISO 377	VE 3F-22-M
<b>Solid fuels</b>				
1	Coal	Determination of the plastic properties (Fluidity); Constant-Torque Gieseler plastometer	IVN 1113 (GH/501) ASTM D-2639	VE 3F-22-K
2	Coal and cokes	Determination of moisture and ash contents; gravimetry	IVN 1114 (GH/504) in-house method	VE 3F-22-K
3		Determination of the volatile part; gravimetry	IVN 1115 (GH/506) ISO 562	VE 3F-22-K
4	Coal	Determination of the crucible swelling number; comparison method	IVN 1116 (GH/514) NEN-ISO 501	VE 3F-22-K

<sup>1</sup> If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-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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5		Determination of the swelling properties; dilatometer	IVN 1117 (GH/515) ISO 23873	VE 3F-22-K
6	Coal and cokes	Determination of the grosse calorific value and the net calorific value; bomb calorimeter	IVN 1118 (GH/502) NEN-ISO 1928	VE 3F-22-K
7		Determination of the content of carbon, hydrogen, nitrogen and sulfur; combustion and TCD-detection	IVN 1140 (GH/593) ISO 29541 (C, H, N) in-house method (S)	VE 3F-22-K
8	Coal	Determination of total chlorine by ion chromatography; combustion in a bomb	IVN 1141 (GH/551, OW/055) in-house method	VE 3F-22-K
9		Determination of the particle size; sieve analysis	IVN 5004 (MN/150, MN/153) ISO 1953	VE 3F-06
10		Determination of total content of moisture; gravimetry	IVN 5005 (MN/152, MN/094) ISO 589-B2	VE 3F-06
11	Cokes	Determination of strength; Irsid Micumtest	IVN 5009 (MN/111) ISO 556	VE 3F-06

**Iron ore and comparable material**

12	Iron ore, iron ore concentrate, sinter and pellet 30-72% Fe	Determination of the content of total iron after Sn(II) chloride reduction; titrimetry	IVN 1009 (GH/001) ISO 2597-1	VE 3F-22-K
13	Oxide materials	Determination of the content of Fe (II); Bromine-methanol dissolution and titrimetry	IVN 1010 (GH/002) in-house method	VE 3F-22-K
14	Iron ore, iron ore concentrate, sinters and pellet	Determination of the content of acid-soluble Fe(II); titrimetry reported as FeO	IVN 1011 (GH/005) ISO 9035	VE 3F-22-K
15	Oxide materials	Determination of the content of CO <sub>2</sub> ; titrimetry	IVN 1012 (GH/072) in-house method	VE 3F-22-K
16		Determination of the content of K and Na; atomic emission spectrometry	IVN 1013 (GH/012) in-house method	VE 3F-22-K

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17	Iron ore and Fe-containing material 45 – 100% Fe <sub>2</sub> O <sub>3</sub>	Determination of Al, Ca, Fe, Mg, Mn, P, Si, Ti and Zn; X-Ray fluorescence after bead fusion	IVN 4001 (PR/040) in-house method	VE 4C-01
18	Oxide Material	Determination of loss on ignition at 1000°C; gravimetry	IVN 4002 (PR/035) in-house method	VE 4C-01
19	Oxide material, Ca based	Determination of the content of Al, Ca, Cr, Fe, K, Mg, Mn, Na, Ni, P, Si and Ti; Ray fluorescence after bead fusion	IVN 4013 (PR/040) in-house method	VE 4C-01
20	Oxide material, Mg based	Determination of the content of Al, Ca, Cr, Fe, K, Mg, Mn, Na, Ni, P, Si, and Ti; X-Ray fluorescence after bead fusion	IVN 4014 (PR/040) in-house method	VE 4C-01
21	Oxide material, Al based	Determination of the content of Al, Ca, Fe, K, Mg, Mn, Na, P, Si, Ti and Zn; X-Ray fluorescence after bead fusion	IVN 4017 (PR/040) in-house method	VE 4C-01
22	Oxide material, Si based	Determination of the content of Al, Ca, Fe, K, Mg, Mn, Na, P, Si, Ti and Zn; X-Ray fluorescence after bead fusion	IVN 4018 (PR/040) in-house method	VE 4C-01
23	Slag	Determination of the content of Al, Ca, Cr, Fe, K, Mg, Mn, Na, P, S, Si, Ti and V; X-Ray fluorescence	IVN 4019 (PR/138) in-house method	VE 4C-01
24	Pellet, pellet flour and sinter	Determination of the content of Al, Ca, Fe, K, Mg, Mn, P, Si, Ti and Zn; X-Ray fluorescence after bead fusion	IVN 4022 (PR/040) in-house method	VE 4C-01
25	Iron ore, pellet and sinter	Determination of the content of Fe(II); potentiometric titrimetry	IVN 4025 (PR/181) in-house method	VE 4C-01
26	Oxide materials	Determination of the content of C en S; combustion and IR detection	IVN 4032 (PR/158) in-house method	VE 4C-01
27	Iron ore	Determination of the content of moisture of a sample; gravimetry	IVN 5002 (MN/103) in-house method	VE 3F-06
28		Determination of particle size distribution; sieve analysis	IVN 5003 (MN/151) in-house method	VE 3F-06

**Steel and pig iron**

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29	Steel, unalloyed and low alloyed	Determination of the content of Al <sub>2</sub> O <sub>3</sub> , Cr, Cu, Mn, Mo, Nb, Ni, P, Si, Sn, Ti, and V; ICP-OES	IVN 1019 (GH/130) in-house method	VE 3F-22-K
30		Determination of the content of free nitrogen using hot hydrogen extraction; photometric detection	IVN 1024 (GH/080) in-house method	VE 3F-22-K
31	Steel, unalloyed and low alloyed	Determination of the content of C and S; combustion and IR detection	IVN 4005 (PR/158) in-house method	VE 4C-01
32		Determination of the content of nitrogen; melt under inert conditions and TCD detection	IVN 4006 (PR/142) in-house method	VE 4C-01
33	Steel, ultra low carbon	Determination of the content of C; combustion and IR detection	IVN 4015 (PR/158) in-house method	VE 4C-01
34	Steel, unalloyed and low alloyed	Determination of the content of Al, As, B, C, Ca, Cr, Cu, Mn, Mo, Nb, N, Ni, P, S, Si, Sn, Ti, V and ULC (ultra low carbon); Optical Emission Spectrometry	IVN 4020 (PR/008) in-house method	VE 4C-01
35	Pig iron	Determination of the content of Cr, Cu, Mn, Mo, Ni, P, S, Si, Sn, Ti en V; X-Ray fluorescence	IVN 4021 (PR/132) in-house method	VE 4C-01

#### Gasses

36	Gas	Determination of the content of H <sub>2</sub> , O <sub>2</sub> +Ar, N <sub>2</sub> , CH <sub>4</sub> , CO, CO <sub>2</sub> , C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> H <sub>6</sub> at %-level; GC-TCD	IVN 3034 (OW/302) in-house method	VE 3F-22-W
37		Determination of the content of H <sub>2</sub> S, CS <sub>2</sub> and COS; GC-FPD	IVN 3034 (OW/302) in-house method	VE 3F-22-W
38	Wastewater, surface water, drink water and process water	Determination of the content of Ca, Cd, Cr, Cu, Fe, Mg, Ni, Pb and Zn; ICP-OES	IVN 1002A (GH/073) NEN 6953 Destruction NEN-EN-ISO 15587-1 Measurement NEN-EN-ISO 11885	VE 3F-22-K

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39		Determination of the content of As; ICP-OES	IVN 1002A (GH/073) NEN 6953 Destruction NEN-EN-ISO 15587-1 Measurement NEN 6966	VE 3F-22-K
40	Wastewater, surface water, drink water and process water	Determination of the content of Hg; cold vapour AAS	IVN 1002D (GH/114) NEN-EN 1483:2007	VE 3F-22-K
41	Process liquid	Determination of the content of CO <sub>2</sub> ; titrimetry	IVN 1008 (GH/072) in-house method	VE 3F-22-K
42	Wastewater, surface water	Determination of pH; potentiometry	IVN 3001 (OW/059) NEN-ISO 10523	VE 3F-22-W
43	Wastewater	Determination of the content of sulfide; titrimetry after conversion to H <sub>2</sub> S and bubbling with nitrogen	IVN 3003 (OW/004) in-house method	VE 3F-22-W
44	Wastewater and surface water	Determination of the content of chloride; potentiometric titration	IVN 3004 (OW/005) NEN 6476	VE 3F-22-W
45	Wastewater	Determination of the content of suspended solids; gravimetry (paper filter)	IVN 3005 (OW/006) NEN 6621	VE 3F-22-W
46		Determination of the content of suspended solids; gravimetry (fibre glass filter)	IVN 3005a (OW/001) NEN-EN 872	VE 3F-22-W
47	Process water	Determination of specific conductivity; conductometry	IVN 3006 (OW/063) NEN-ISO 7888	VE 3F-22-W
48	Wastewater	Determination of the content of ammonia after distillation; titrimetry	IVN 3008 (OW/010) ISO 5664	VE 3F-22-W
49		Determination of the content of steam distillable phenols; photometry	IVN 3009 (OW/011) In-house method	VE 3F-22-W
50		Determination of the total content of phosphate after oxidation	IVN 3012 (OW/017) NEN-EN-ISO 6878	VE 3F-22-W

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51	Wastewater and surface water	Determination of chemical oxygen demand (COD); potentiometric titration	IVN 3013 (OW/020) NEN 6633 (2006)	VE 3F-22-W
52	Wastewater, groundwater and surface water	Determination of Kjeldahl, nitrogen-content; titrimetry	IVN 3020 (OW/013) NEN-ISO 5663	VE 3F-22-W
53	Wastewater	Determination of the content of dissolved chloride, sulphate, nitrite, nitrate and fluoride; IC	IVN 3025 (OW/022) NEN-EN-ISO 10304-1	VE 3F-22-W
54	Wastewater, process water except mono-ethanolamin containing water	Determination of total cyanide; continuous flow analyzer, distillation method	IVN 3026 (OW/105) NEN-EN-ISO14403-2	VE 3F-22-W
55	Wastewater	Determination of free cyanide up to 100 µg/l; continuous flow analyzer, distillation method	IVN 3026 (OW/105) NEN-EN-ISO14403-2	VE 3F-22-W
56	Wastewater and surface water	Determination of mineral oil; GC-FID after desintegration	IVN 3036 (OW/301, OW/307) ISO 9377-2	VE 3F-22-W
57	Wastewater	Determination of the content of total organic carbon (TOC), determined as NPOC; IR-spectrometry	IVN 3038 (OW/106) NEN-EN 1484	VE 3F-22-W

#### Steel, physical properties

58	Steel	Determination of the yield strength, tensile strength, uniform elongation, elongation at break, r-value and n-value; tensile test (tension rod type 2) at room temperature (283 K – 308 K)	IVN 6001 (WVS101, BVS101, BVS102) ISO 6892-1, ISO 10113, ISO 10275	VE 3F-22-M
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#### Others

59	Impinger fluid (nitric acid / bichromate)	Determination of the fluid amount; graduated cylinder and Hg, graduated cylinder and CVAAS	IVN 1026 (GH/115) in-house method	VE 3F-22-K
60	Filter	Determination of the content of Cd, Cr, Cu, Fe, Hg, Ni, Pb and Zn; ICP-OES and CVAAS after Aqua Regia destruction	IVN 1028 (GH/112) in-house method	VE 3F-22-K

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61	Wastewater, surface water, drink water and process water	Determination of the content of As, Ca, Cd, Cr, Cu, Fe, Hg, Mg, Ni, Pb and Zn; ICP-MS	IVN 1002E (GH/073, GH140) Destruction NEN-EN-ISO 15587-1 Measurement NEN-EN-ISO 17294-2	VE 3F-22-K
62	Oil and tar	Determination of the content of water; Karl Fischer method	IVN 3032 (OW/209) in-house method	VE 3F-22-W
63	Solid waste	Determination of the content of mineral oil; GC-FID after disintegration	IVN 3033 (OW307, OW/300) in-house method	VE 3F-22-W