

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: **13-08-2025 to 01-08-2027**

Replaces annex dated: **29-01-2025**

Location(s) where activities are performed under accreditation

Head Office

Wenkebachstraat 1
1951 JZ
Velsen-Noord
The Netherlands

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

| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|--------------------|----------------------------------|---|--|------------|
| Preparation | | | | |
| 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 the determination of the chemical composition of IVN 1019, IVN 4005 and IVN 4006 | IVN 5006 (MN/223, MN/204) NEN-EN-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) NEN-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) NEN-EN-ISO 6892-1, NEN-EN-ISO 377 | VE 3F-22-M |

| Solid fuels | | | | |
|--------------------|----------------|--|---|------------|
| 1 | Coal | Determination of the plastic properties (Fluidity); Constant-Torque Gieseler plastometer | IVN 1113 (GH/501) ASTM D-2639/D2639M | 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) NEN-ISO 562 | VE 3F-22-K |

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-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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|-----|---------------------|---|---|------------|
| 4 | Coal | Determination of the crucible swelling number; comparison method | IVN 1116 (GH/514) NEN-ISO 501 | VE 3F-22-K |
| 5 | | Determination of the swelling properties; dilatometer | IVN 1117 (GH/515) NEN-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) NEN-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) NEN-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) NEN-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 ₂ ; titrimetry | IVN 1012 (GH/072) in-house method | VE 3F-22-K |

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|-----|---|--|--------------------------------------|------------|
| 16 | | Determination of the content of K and Na; atomic emission spectrometry | IVN 1013 (GH/012) in-house method | VE 3F-22-K |
| 17 | Iron ore and Fe-containing material 45 – 100% Fe ₂ O ₃ | 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 |

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|---------------------------|--|--|--|------------|
| Steel and pig iron | | | | |
| 29 | Steel, unalloyed and low alloyed | Determination of the content of Al ₂ O ₃ , 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 C and S; combustion and IR detection | IVN 4005 (PR/158) in-house method | VE 4C-01 |
| 31 | | Determination of the content of nitrogen; melt under inert conditions and TCD detection | IVN 4006 (PR/142) in-house method | VE 4C-01 |
| 32 | Steel, ultra low carbon | Determination of the content of C; combustion and IR detection | IVN 4015 (PR/158) in-house method | VE 4C-01 |
| 33 | 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 |
| 34 | 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 | | | | |
| 35 | Gas | Determination of the content of H ₂ , O ₂ +Ar, N ₂ , CH ₄ , CO, CO ₂ , C ₂ H ₄ and C ₂ H ₆ at %-level; GC-TCD | IVN 3034 (OW/302) in-house method | VE 3F-22-W |
| 36 | | Determination of the content of H ₂ S, CS ₂ and COS; GC-FPD | IVN 3034 (OW/302) in-house method | VE 3F-22-W |
| 37 | 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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| 38 | | 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 |
| 39 | | 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 |
| 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 ₂ ; 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-EN-ISO 10523 | VE 3F-22-W |
| 43 | Wastewater | Determination of the content of sulfide; titrimetry after conversion to H ₂ 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 (fibre glass filter) | IVN 3005a (OW/001) NEN-EN 872 | VE 3F-22-W |
| 46 | Process water | Determination of specific conductivity; conductometry | IVN 3006 (OW/063) NEN-ISO 7888 | VE 3F-22-W |
| 47 | Wastewater | Determination of the content of ammonia after distillation; titrimetry | IVN 3008 (OW/010) NEN-ISO 5664 | VE 3F-22-W |
| 48 | | Determination of the content of steam distillable phenols; photometry | IVN 3009 (OW/011) In-house method | VE 3F-22-W |
| 49 | | 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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| 50 | Wastewater and surface water | Determination of chemical oxygen demand (COD); potentiometric titration | IVN 3013 (OW/020) NEN 6633 (2006) | VE 3F-22-W |
| 51 | Wastewater, groundwater and surface water | Determination of Kjeldahl, nitrogen-content; titrimetry | IVN 3020 (OW/013) NEN-ISO 5663 | VE 3F-22-W |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |
| 55 | Wastewater and surface water | Determination of mineral oil; GC-FID after desintegration | IVN 3036 (OW/301, OW/307) NEN-EN-ISO 9377-2 | VE 3F-22-W |
| 56 | 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

| | | | | |
|----|-------|--|--|------------|
| 57 | 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) NEN-EN-ISO 6892-1, NEN-EN-ISO 10113, NEN-EN-ISO 10275 | VE 3F-22-M |
|----|-------|--|--|------------|

Others

| | | | | |
|----|-------------|---|--------------------------------------|------------|
| 58 | 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 |
| 59 | Oil and tar | Determination of the content of water; Karl Fischer method | IVN 3032 (OW/209) in-house method | VE 3F-22-W |

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| 60 | Solid waste | Determination of the content of mineral oil; GC-FID after disintegration | IVN 3033 (OW307, OW/300, OW/208) in-house method | VE 3F-22-W |