

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 050**

of **Incolab Services B.V.**
Laboratory

This annex is valid from: **19-10-2022 to 01-12-2025**

Replaces annex dated: **18-11-2021**

Location(s) where activities are performed under accreditation

Head Office

Röntgenstraat 3
 3261 LK
 Oud-Beijerland
 The Netherlands

| Location | Abbreviation/ location code |
|---|-----------------------------|
| Röntgenstraat 3 3261 LK Oud-Beijerland The Netherlands | A |

| No. | Material or product | Type of activity ¹ | Internal reference number | Location |
|-----------------------------|---|---|--|----------|
| Sampling Preparation | | | | |
| a. | Coal and Coke Petroleum coke | Grinding and preparation on behalf of all mentioned tests | WS 25 ISO 18283 ASTM D 2013 | A |
| b. | Solid biofuels (SBF) Solid recovered fuels (SRF) | Grinding and preparation on behalf of all mentioned tests | WS 25.1 ISO 14780 EN 15443 EN 15413 ISO 21646 NTA 8200:2002 | A |

Analysis

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

J.A.W.M. de Haas

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on [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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|-----|---------------------------------|--|--|----------|
| 1. | Coal and coke Petroleum coke | Determination of total moisture content, by gravimetric method | WS 1 Coal: ISO 589 method B2 ASTM D 2961 Coke: ISO 579 ASTM D 2961 Petroleum coke: ASTM D 4931 | A |
| 2. | Coal and coke Petroleum coke | Determination of total moisture content, by gravimetric two-stage method | WS 2 Coal and Coke: ISO 589 method A2 ASTM D 3302 procedure B Petroleum coke: ASTM D 4931 | A |
| 3. | Coal and coke Petroleum coke | Determination of inherent moisture content, by gravimetric method | WS 3 Coal and Coke: ISO 11722 ASTM D 3173 Petroleum coke: ASTM D 4931 | A |
| 4. | | Determination of ash content, by gravimetric method | WS 4 Coal and Coke: ISO 1171 ASTM D 3174 Petroleum coke: ASTM D 4422 | A |
| 5. | | Determination of volatile matter content, by gravimetric method | WS 5 Coal and Coke: ISO 562 or ASTM D 3175 Petroleum coke: ASTM D 6374 | A |

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|-----|---------------------------------|---|---|----------|
| | | Calculation of fixed carbon content | WS 21 ISO 17246 or ASTM D 3172 | |
| 6. | Coal and coke Petroleum coke | Determination of gross and net calorific value, by bomb calorimetric method | WS 6 + WS 21 Coal and Coke: ISO 1928 ASTM D 5865 Petroleum coke: ASTM D 5865 | A |
| 7. | | Determination of sulphur content, by high temperature combustion IR method | WS 19 Coal and Coke: ISO 19579 ASTM D 4239 method A Petroleum coke: ASTM D 1552 method A | A |
| 8. | Coal | Determination of free-swelling index, by heating in a covered crucible | WS 8 Coal: ISO 501 ASTM D 720 | A |
| 9. | Coal Petroleum coke | Determination of grindability, by using a hard grove machine | WS 9 Coal: ISO 5074 ASTM D 409 Petroleum coke: ASTM D 5003 | A |

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|-----|---------------------------------|---|--|----------|
| 10. | Coal and coke Petroleum coke | Determination of carbon, hydrogen content, by IR method and nitrogen content, by thermal conductivity method. Calculation of oxygen content Calculation of carbon dioxide emission factor | WS 10 Coal and Coke: C, H, N ISO 29541 ASTM D 5373 Coal and coke O: ISO 1170 ASTM D 3176 Petroleum coke: C,H,N: ASTM D 5291 Petroleum Coke: O: ASTM D 3176 WS 21 Directive 2003/87/EC Commission regulation EU 601/2012 | A |
| 11. | Coal and coke | Determination of boron content, by ICP-AES method | WS 11 AS 1038.10.3 ASTM D 8213 method D | A |
| 12. | | Determination of chlorine and fluorine content, by ion chromatography method | WS 12 Cl: ISO 18806 ASTM D 8247 F: ISO 11724 ASTM D 8247 | A |
| 13. | Coal | Determination of sulphur forms content (sulfate, pyritic, organic), ICP-AES method | WS 14 ASTM D 8214 | A |
| 14. | | Determination of total mercury content, by direct combustion and atomic absorption spectroscopy method | WS 18 ASTM D 6722 | A |
| 15. | Coal | Determination of content of selenium (Se), by inductively coupled plasma mass spectrometer (ICP-MS) method | WS 31 in house method | A |

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| 16. | Ash from coal or coke | Determination of fusibility, by high temperature tube method | WS 15 ISO 540 ASTM D 1857 | A |
| 17. | | Determination of sulphur content, by high temperature combustion IR method | WS 19 ASTM D 5016 | A |
| 18. | | Determination of content of following major elements, by inductively coupled plasma atomic emission (ICP-AES): Al, Ba, Ca, Fe, K, Mg, Mn, Na, P, Si, Sr, Ti | WS 16 ASTM D 6349 | A |
| 19. | | Determination of content of following minor and trace elements, by inductively coupled plasma mass spectrometer (ICP-MS) method As, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, V, Zn; Sn, Te and Tl: in house method | WS 17 As, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, V, Zn: ASTM D 6357 Sn, Te and Tl: in house method | A |
| 20. | Solid biofuels (SBF) Solid recovered fuels (SRF/RDF) | Determination of total moisture content, by gravimetric method | WS 1.1 SBF: ISO 18134-1 SRF: CEN/TS 15414-1 | A |
| 21. | | Determination of inherent moisture content, by gravimetric method | WS 3 SBF: ISO 18134-3 SRF: ISO 21660-3 EN 15414-3:2011 | A |
| 22. | | Determination of ash content, by gravimetric method | WS 4 SBF: ISO 18122 SRF: ISO 21656 EN 15403:2011 | A |
| 23. | | Determination of gross and net calorific value, by bomb calorimetric method | WS 6 SBF: ISO 18125 SRF: EN 15400, ISO 21654 | A |

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| 24. | | Determination of sulphur content, by high temperature combustion IR method | WS 19 SBF and SRF: in house method | A |
| 25. | | Determination of chlorine and fluorine content, by ion chromatography method | WS12 SBF and SRF: in-house method | A |
| 26. | | Determination of total mercury content, by direct combustion and atomic absorption spectroscopy | WS 18 SBF: ISO 16968 SRF: EN 15411 | A |
| 27. | | Determination of carbon, hydrogen content by IR method and nitrogen content, by thermal conductivity method. Calculation of oxygen by difference Calculation of carbon dioxide emission factor | WS 10 SBF: C,H,N: ISO 16948 O: ISO 16993 SRF: C,H,N: EN 15407, ISO 21663 O: ISO 16993 WS 21 Directive 2003/87/EC Commission regulation EU 601/2012 | A |
| 28. | | Determination of content of following minor and trace elements, by inductively coupled plasma mass spectrometer (ICP-MS) method: As, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Sn, Te, Tl, V, Zn | WS 17 SBF: As, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, V, Zn: ISO 16968 Be, Sn, Te, Tl: in house method SRF: As, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Te, Tl, V, Zn: EN 15411 Sn: in house method WS 31 SBF and SRF: Se: in house method | A |
| 29. | Solid recovered fuels (SRF/RDF) | Biomass content, by selective dissolution method | WS 24 ISO 21644 EN 15440:2011 | A |
| 30. | Ash from biomass fuel | Determination of content of following major elements, by inductively coupled plasma atomic emission (ICP-AES) method: Al, Ba, Ca, Fe, K, Mg, Mn, Na, P, Si, Sr, Ti | WS 16 Al, Ca, Fe, K, Mg, Na, P, Si, Ti: NTA 8200:2002 Ba, Mn, Sr: in house method | A |

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| 31. | | Determination of sulphur content, by high temperature combustion IR method | WS 19 in-house method | A |