Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-19594-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 03.06.2020

Date of issue: 03.06.2020

Holder of certificate:

GSA Gesellschaft für Schadstoffanalytik mbH
Christinenstraße 3, 40880 Ratingen

Tests in the fields:

Sample and analyses of fibrous particle indoors;
Sample of gaseous and particulate emission indoors;
Determination of fibrous particle in material samples;
Determination of aerosols, fumes and fibrous dusts as well as of selected parameters for workplace measurements in accordance with the Hazardous Substances Ordinance §7, Para. 10

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalenttestingmethods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

1 Determination of fibrous particle, gaseous and particulate emission indoors and in material samples

DIN ISO 12884 2000-12	Ambient air - Determination of total (gas- and particle-phase) polycyclic aromatic hydrocarbons - Collection on sorbent-backed filters with gas chromatographic/mass spectrometric analyses (Deviation: *except analytics*)
DIN EN ISO 16000-6 2012-11	Indoor air pollution - Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography using MS or MS-FID (Deviation: *except analytics*)
VDI 2464 Part 1 2009-09	Ambient air measurement - Indoor air measurement - Measurement of polychlorinated biphynyls (PCBs) - GC/MS method for PCB 28, 52, 101,138, 153, 180 (Deviation: *except analytics*)
VDI 3492 2004-10	Indoor air measurement - Ambient air measurement - Measurement of inorganic fibrous particles - Scanning electron microscopy method
VDI 3866-1 2000-12	Determination of asbestos in technical products - Principles - Sampling and sample preparation
VDI 3866-2 2001-10	Determination of asbestos in technical products - Infrared spectroscopy method
VDI 3866-4 2002-02	Determination of asbestos in technical products - Phase contrast optical microscopy method
VDI 3866-5 2017-06	Determination of asbestos in technical products - Scanning electron microscopy method
IFA AM 7487 2003-10	Method for the analytical determination of low mass contents of asbestos fibres in powders and dusts by SEM/EDX

2 Workplace measurements in accordance with Hazardous Substances Ordinance §7, Para. 10

Group 1: Determination of aerosols during workplace measurements

Group 1 Aerosols (without fibrous dusts)	Standard title	Standard	QM - Document
Component			
A-dust	Respirable alveolar dust	IFA AM 6068 2015-05	SOP-P-019 2019-09
E-dust	Respirable dust	IFA AM 7284 2003-10	SOP-P-021 2019-09
Wood dust	Wood dust	IFA AM 7630 2011-11 DGUV 213-541 2006-10	SOP-P-023 2014-08
Metals and metallic compounds incl. chromium VI	Dust components (metals; e.g. nickel, chromium), chromates	IFA AM 6068 2015-05 IFA AM 7284 2003-10 IFA AM 7808 2013-12 DGUV 213-505 2017-10	SOP-P-019 2014-08 SOP-P-021 2014-08
Amorphous silica	Amorphous silica	IFA AM 7710 2011-05	SOP-P-031 2014-08 SOP-P-032 2014-08
Crystalline silica	Quartz	IFA AM 8522 1995-02	SOP-P-032 2014-08

-Translation-

Group 2: Determination of fibre dusts

Group 2 Fibre dusts	Standard title	Standard	QM - Document
Component			
Asbestos fibres	Fibres, generally asbestos fibres and other inorganic fibres	IFA AM 7487 2003/X DGUV 213-531 2014-02 DGUV 213-546 2014-02	SOP-P-016 2015-06 SOP-P-027 2014-05 SOP-P-017 2014-05 SOP-P-018 2014-05
Inorganic fibre dusts (except asbestos)	Asbestos fibres and other inorganic fibres	DGUV 213-531 2014-02 DGUV 213-546 2014-02	SOP-P-016 2015-06 SOP-P-017 2014-05 SOP-P-018 2014-05

Group 5: Determination of selected parameters and in selected areas

Group 5 Selected parameters	Standard title	Standard	QM - Document
Component			
Cooling lubricants	cooling lubricants and other complex hydrogenous compounds, non water miscible substances	IFA AM 7750 1997-11 IFA AM 7750/1 2012-11	SOP-P-025 2019-09
Multi-component systems	Polycyclic aromatic hydrocarbons (PAH), low-volatile substance	IFA AM 8408 2018-04	SOP-P-038a 2018-05
DME	Diesel engine emissions	DGUV 213-544 1995-06 IFA AM 7050 1997-04	SOP-P-039 2019-09

-Translation-

Valid from: 03.06.2020
Date of issue: 03.06.2020

The methods listed correspond to the requirements that apply when determining the concentration of hazardous substances in workplaces. Together with the examination of the sufficient number of reports submitted for each group, the competence for the determination and assessment of concentrations of hazardous substances in air in working areas in accordance with the Hazardous Substances Ordinance § 7, para. 10 is confirmed for

Group 1	
Group 2	
Group 5	Two-phase sampling systems with sum determination: e.g. cooling lubricants, multi-component systems: PAH (PAK), diesel engine emissions

Abbreviations used:

DGUV	German Statutory Accident Insurance
DIN	German Institute for Standardization
EN	European standard
IAF AM	Institute for health and safety of the German Statutory Accident Insurance, Manual
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
VDI	Association of German Engineers

-Translation-