



Accreditation number **STS 472**
Accreditation standard ISO/IEC 17025:2005

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Testing laboratory scanning electron microscopy, qualitative and semi-quantitative elemental analysis by SEM EDX and asbestos related analytics

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Scope of accreditation in December 2010

Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Asbestos	Building survey, materials sampling and analysis	Validated in-house methods (MS-A-1)
	Asbestos determination in materials (SEM EDX)	Validated in-house methods (MS-A-2) according to VDI 3866 Blatt 5 and HSG 248
	Airborne asbestos fibres : verification, sampling and concentration measurements	FCOS 6503 and VDI 3492
	Airborne asbestos fibres concentration measurements	VDI 3492
Material analytics	Material sampling	Validated in-house methods (MS-M-1)
	Scanning electron microscopy analyse (SEM) - Defect analysis - Surface analysis - Failure analysis - Measurements - Grain sizing	Validated in-house methods (MS-M-2)

1) Type A: It is not allowed to change the scope
2) Type B: Optimizing defined test methods (adapt to client's needs, adapted standards) is allowed
3) Type C: Introduction of additional test methods for the different types of tests is allowed



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Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Contamination control	Scanning electron microscopy with energy-dispersive X-ray spectroscopy (SEM-EDX) - Material identification - Qualitative analysis - Semi-quantitative element analysis	Validated in-house methods (MS-M-3)
	Metallographic examinations	Validated in-house methods (MS- M-4)
	Sampling of - Material - airborne fibres and particles - Fibers and particles deposited or on the surface - Fibers and particles in liquids - Condensed material - in clean rooms	Validated in-house methods (MS-C-1)
	Clean room preparations	Validated in-house methods (MS-C-2)
Gun shot residues (GSR)	Scanning electron microscopy with energy-dispersive X-ray spectroscopy (SEM-EDX) - morpho-chemical identification - Automated single-particle analysis and classification	Validated in-house methods (MS-C-3)
	Sampling and analytics of Gun shot residues by SEM-EDX	ASTM 1588

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Abbreviations:

FCOS	Federal Coordination Commission of Occupational Safety
EDX	Energy-dispersive X-ray spectroscopy
SEM	scanning electron microscope
VDI	Verein Deutscher Ingenieure
ASTM	American society for testing and material
HSG	Health and Safety Executive

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