

ANNEX A:

Following standards are included within the flexible scope of accreditation **category A (III)** according to DAkkS rule „71 SD 0 002 / R-17025-PL (7.8.4)“.

- **Industrial Computed Tomographie (ICT):**

not applicable (only house procedure)

- **Industrial Metrology Technique (IMT):**

not applicable (only house procedure)

- **Materialography (MAT):**

VDA 19 Part 1
2015

Inspection of Technical Cleanliness – Particulate Contamination of Functionally Relevant Automotive Components ¹

ISO 16232
2018-12

Road vehicles - Cleanliness of components and systems ²

VDG P201
2002-05

Volume deficits of castings made of non-ferrous metals

VDG P202
2010-09

Volume Deficits of Castings Made from Aluminium, Magnesium, and Zinc Casting Alloys

DIN 30901
2016-12

Heat treatment of ferrous materials - Determination of the depth and form of appearance of the internal oxidation

DIN 50190-3
1979-03
(withdrawn)

Hardness depth of heat-treated parts; Determination of the effective depth of hardening after nitriding

DIN 50190-4
1999-09
(withdrawn)

Hardness depth of heat-treated parts; Determination of the fusion hardening depth and the fusion depth

¹ Chapter: 8.3.2 SEM/EDX, 8.3.4 Raman spectroscopy and 8.3.5 IR (infrared spectroscopy)

² Chapter: 9.3.2 SEM/EDX, 9.3.4 Raman spectroscopy and 9.3.5 IR (infrared spectroscopy)

ANNEX A (continuation):

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- Materialography (MAT):

DIN EN 10328 2005-04 (withdrawn)	Iron and steel - Determination of the conventional depth of hardening after surface heating
DIN EN ISO 643 2020-06	Steels - Micrographic determination of the apparent grain size
DIN EN ISO 1463 2021-08	Metallic and oxide coatings - Measurement of coating thickness - Microscopical method
DIN EN ISO 2639 2003-04 (withdrawn)	Steels - Determination and verification of the depth of carburized and hardened cases
DIN EN ISO 18203 2022-07	Steel - Determination of the thickness of surface-hardened layers
DIN EN ISO 6507-1 2018-07	Metallic materials - Vickers hardness test - Part 1: Test method
DIN EN ISO 9015-2 2016-10	Destructive tests on welds in metallic materials - Hardness testing - Part 2: Microhardness testing of welded joints
DIN EN ISO 17639 2022-05	Destructive tests on welds in metallic materials – Macroscopic and microscopic examination of welds

- Technical Cleanliness (TecSa):

VDA 19 2004	Inspection of Technical Cleanliness – Particulate Contamination of Functionally Relevant Automotive Components ³
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³ chapter D, E, F.1 to F.4

ANNEX A (continuation):

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Technical Cleanliness (TecSa):

VDA 19 Part 1 2015	Inspection of Technical Cleanliness – Particulate Contamination of Functionally Relevant Automotive Components ⁴
ISO 4405 2022-07	Hydraulic fluid power - Fluid contamination - Determination of particulate contamination by the gravimetric method
ISO 4407 2002-04	Hydraulic fluid power - Fluid contamination - Determination of particulate contamination by the counting method using an optical microscope
ISO 16232 2018-12	Road vehicles - Cleanliness of components and systems ⁵

Chemical Analytics (CHA):

DIN EN ISO 11357-1 2017-02	Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles
DIN EN ISO 11357-2 2020-08	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and step height
DIN EN ISO 11357-3 2018-07	Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization
DIN EN ISO 11358-1 2022-07	Plastics - Thermogravimetry (TG) of polymers - Part 1: General principles
DIN ISO 22309 2015-11	Microbeam analysis - Quantitative analysis using energy-dispersive spectrometry (EDS) for elements with an atomic number of 11 (Na) or above

⁴ except chapter 8.3.3 LIBS, 8.3.6 X-ray microtomography and 8.4 Shortened analysis

⁵ except chapter 9.3.3 LIBS, 9.3.6 X-ray microtomography and 9.4 Shortened analysis

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- **Chemical Analytics (CHA):**

Ph.Eur.10.7

2.2.24

2023-01

and

ASTM E1252

1998

Investigation or identification of unknown substances
in organic and inorganic materials by means of
Fourier transform infrared spectroscopy (FTIR)

Standard Practice for General Techniques for Obtaining
Infrared Spectra for Qualitative Analysis