



Accreditation number **STS 174**
Accreditation standard ISO/IEC 17025:2005

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Testing laboratory for the analysis of precious metals and for the determination of physical properties of metals, especially precious metals

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Scope of accreditation in October 2007

Group of products or materials, field of activity	Principle of measurement ^{2), 3)} (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, validated in-house test methods)
Analytical procedures	Sampling of fine metals and jewellery alloys ³⁾	Validated inhouse methods for the analytical methods below
	Determination of gold in gold jewellery alloys by cupellation ²⁾	SN EN ISO 11426
	Determination of silver in silver jewellery alloys by potentiometric titration with KBr ²⁾	SN EN 31427 ISO 11427
	Determination of fineness in jewellery alloys by WD-XRF ³⁾	Gold, platinum Validated inhouse test methods
	Determination of traces in fine metals by ICP-OES ³⁾	Gold, silver, platinum and palladium Validated inhouse test methods

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), 3)} (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, validated in-house test methods)
Metallurgical procedures	<p>Sampling for materials testing ³⁾</p> <p>Determination of melting temperatures of crystalline materials by differential thermal analysis (DTA) ²⁾</p> <p>Metal-ceramic bond characterization (Schwickerath crack initiation test) ²⁾</p> <p>Determination of Vickers hardness ²⁾</p> <p>Determination of the thermal expansion of solids ²⁾</p> <p>Determination of surface roughness values of the parameters Ra, Rz, Rmax by means of electrical contact instruments ²⁾</p> <p>Determination of the mechanical properties of metallic materials (tensile testing) ²⁾ - special materials</p> <p>Determination of grain size on metallographic sections ²⁾</p> <p>Examination of structures on metallographic sections ³⁾</p>	<p>Validated inhouse methods for the metallurgical methods below</p> <p>DIN 51004</p> <p>ISO 9693</p> <p>ISO 6507-1</p> <p>DIN 51045-1</p> <p>DIN 4768</p> <p>EN 10002-1</p> <p>Dental casting alloys according to ISO 22674</p> <p>ASTM E 112, section 10</p> <p>Validated inhouse test method</p>

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