

## ACCREDITATION CERTIFICATE



Akred. nr. 1890  
Testing  
ISO/IEC 17025

### **Degerfors Laboratorium AB**

Registration number 556609-0444

is accredited as a testing laboratory for the scope specified in appendix 2. The applicable terms of the accreditation are specified in appendix 1.

This laboratory is accredited in accordance with the International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system. The accredited laboratory is responsible for the results of performed testing and submitted judgements as well as, where applicable, for the selection and application of work methods within the scope of the granted accreditation.

The accreditation is valid until further notice. The Swedish Board for Accreditation and Conformity Assessment (Swedac) regularly carries out surveillance, and a full reassessment every fourth year, in order to verify that the applicable terms of accreditation, see appendix 1, are continually fulfilled.

This accreditation certificate was issued **2017-06-20** by  
Annika Norling,  
deputy Manager of the Health and environment division

Accreditation was granted in accordance with article 5 (1) or Regulation (EC) No 765/2008 regarding accreditation and market surveillance etc. and the Act (SFS 2011:791) concerning Accreditation and Conformity Assessment. Swedac is the national accreditation body responsible for the assessment of the competence of certification bodies, inspection bodies, laboratories and environmental verifier applying for accreditation. This accreditation has been issued under the EA MLA and is therefore recognised as equivalent to other accreditations issued under the EA MLA within the same accreditation scope.

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Degerfors Laboratorium AB

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## **Decision on accreditation**

(3 appendices)

### **Decision**

Swedish Board for Accreditation and Conformity Assessment (Swedac) changes the decision 2016-01-20 in case 2014/1608 such as for Degerfors Laboratorium AB (registration number 556609-0444) is following deleted from the scope of accreditation: The accreditation does not cover opinions and interpretations. The new scope of accreditation is specified in appendix 2. The accreditation is valid until further notice.

### **Flexible scope of accreditation**

Degerfors Laboratorium AB shall always keep an updated list of methods used within its accreditation. For the upcoming assessments you shall provide Swedac a list of changes introduced since the latest assessment.

Flexible scope of accreditation implies that the laboratory within its accreditation, without applying to Swedac, may do changes in all ready accredited methods as follows:

- Introduce new version of standard methods
- Introduce new parameters/components/test
- Introduce new measurement range
- Introduce new products/new systems
- Introduce new versions and perform modifications of non-standardized methods. The procedure shall be similar.
- Introduce new methods that are equivalent to methods already covered by accreditation

The changes introduced by flexible scope accreditation should not imply new measurement principles, new accreditation or technical areas than those already existing in the accreditation decision.

### **Applicable provisions**

The provisions used in Swedacs accreditation process and which are applicable to activities are set out in appendix 1.

### **Reason for decision**

Degerfors Laboratorium AB has applied for change of parts in the scope of accreditation. Swedac assess that the requirements are fulfilled for accreditation for the scope set out in the application.

**Information**

The scope of accreditation is specified in appendix 2. Application for changed scope, except to the flexible accreditation, must be made to Swedac.

Regular surveillance visit will be performed as described in the applicable regulations on accreditation.

Accredited laboratories pay an annual fee in accordance with Swedac's regulations.

The organisation carry out accredited activities at the following site/sites:  
See appendix 2

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This decision has been made by deputy Division Manager Annika Norling in consultation with the Technical Officer .

Annika Norling

Appendices

1. Applicable provisions
  2. Scope of accreditation
- Accreditation certificate

Please notice that this is a translation, in case of any discrepancies between the English version and the original Swedish version the latter will prevail.

## **Applicable provisions**

### **EU legislation and national legislation**

Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products and repealing Regulation (EEC) No 339/93

Act (SFS 2011:791) concerning Accreditation and Conformity Assessment

Ordinance (2011:811) concerning Accreditation and Conformity Assessment

STAFS 2011:33 Swedac's Regulations and General Guidelines for the Accreditation of Laboratories

STAFS 2015:8 Swedac's Regulations and General Guidelines (STAFS 2015:8) on Accreditation

STAFS 2011:33 includes all requirements in  
SS-EN ISO/IEC 17025:2005

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**Scope of accreditation**

Degerfors Laboratorium AB

Degerfors

Accreditation number

1890

A003432-001

**Chemical analysis**

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Field</i>
Inorganic chemistry	Aluminium, Al	ASTM E1086:2014	OES	Steel	Yes	No
		ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
	Aluminium oxide Al <sub>2</sub> O <sub>3</sub>	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Antimony, Sb	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	No	No
	Arsenic, As	ASTM E1086:2014	OES	Steel	Yes	No
		ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Lead, Pb	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		JK 250D, 1978 Method 5.4-067M 2013-06-28	GFAA	Steel	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Boron, B	ASTM E1086:2014	OES	Steel	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
	Phosphorus, P	ASTM E1086:2014	OES	Steel	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
SS-EN 15079:2015		OES	Copper/Copper alloys	Yes	No	

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<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Field</i>
Inorganic chemistry	Iron, Fe	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		ASTM E539:2011	XRF	Titanium/Titanium alloys	Yes	No
		ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Cadmium, Cd	SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Calcium oxide, CaO	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Calcium oxide, K2O	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Silicon, Si	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		ASTM E572:2013, mod	XRF	Steel	Yes	No
	Silica, SiO <sub>2</sub>	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Cobalt, Co	ASTM E1086:2014	OES	Steel	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		ASTM E572:2013, mod	XRF	Steel	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Carbon, C	ASTM E1019:2011, mod	Combustion	Iron/Iron alloys	Yes	No
			Combustion	Metallic materials	Yes	No
			Combustion	Solid materials	Yes	No
			Combustion	Steel	Yes	No
		ASTM E1941:2010	Combustion	Titanium/Titanium alloys	Yes	No
SS-EN ISO 21068-2:2008		Combustion	Metallic materials	Yes	No	
Copper, Cu	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No	
	ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No	

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<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Field</i>
Inorganic chemistry	Copper, Cu	ASTM E572:2013, mod	XRF	Steel	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Chromium, Cr	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		ASTM E572:2013, mod	XRF	Steel	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Chromiumoxide, Cr2O3	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Nitrogen, B	ASTM E1019:2011	Combustion	Steel	Yes	No
		ASTM E1019:2011, mod	Combustion	Steel	Yes	No
		ASTM E1409:2013	Combustion	Titanium/Titanium alloys	Yes	No
	Magnesium, Mg	ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
	Magnesium oxide, MgO	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Manganese, Mn	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		ASTM E572:2013, mod	XRF	Steel	Yes	No
		ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Molybdenum, Mo	ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
ASTM E572:2013, mod		XRF	Steel	Yes	No	
Nickel, Ni	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No	
	ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No	

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<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Field</i>
Inorganic chemistry	Nickel, Ni	ASTM E572:2013, mod	XRF	Steel	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Nickel oxide, NiO	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Niob, Nb	ASTM E572:2013, mod	XRF	Steel	Yes	No
	Selenium, Se	SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Silver, Ag	SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Sulfur, S	ASTM E1019:2011, mod	Combustion	Iron/Iron alloys	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Oxygen, O	ASTM E1409:2013	Combustion	Titanium/Titanium alloys	Yes	No
	Tellurium, Te	SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Tin, Sn	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		ASTM E572:2013, mod	XRF	Steel	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Titanium, Ti	ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		ASTM E572:2013, mod	XRF	Steel	Yes	No
	Titaniumdioxide, TiO <sub>2</sub>	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Vanadium oxide, V <sub>2</sub> O <sub>5</sub>	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No
	Vanadium, V	ASTM E1999:2011	OES	Iron/Iron alloys	Yes	No
		ASTM E572:2013, mod	XRF	Steel	Yes	No
Hydrogen, H	ASTM E1447:2009	Combustion	Titanium/Titanium alloys	Yes	No	



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Inorganic chemistry	Bismut, Bi	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		JK 250D, 1978 Method 5.4-067M 2013-06-28	GFAA	Steel	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Tungsten, W	ASTM E572:2013, mod	XRF	Steel	Yes	No
	Zinc, Zn	ASTM E1621:2013	XRF	Copper/Copper alloys	Yes	No
		SS-EN 15079:2015	OES	Copper/Copper alloys	Yes	No
	Zinc oxide, ZnO	ISO 9516-1:2003	XRF	Iron/Iron alloys	Yes	No

The accreditation does not cover sampling activities. If the laboratory, regardless of this, performs the sampling by itself, then the testing is not considered to be performed under accreditation.