

## ACCREDITATION CERTIFICATE



1890  
ISO/IEC 17025

### Degerfors Laboratorium AB

Registration number 556609-0444

is accredited as a testing laboratory for the scope specified in appendix 2, dated 2012-08-27. The terms of the accreditation are specified in appendix 1.

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué, see appendix 3). The accredited laboratory is responsible for the results of performed testings 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 requirements for accreditation, see appendix 1 dated 2012-08-27, are continually fulfilled.

This accreditation certificate was issued **2012-08-27** by

Maria Wallin

Deputy Manager of the Healthcare, Food 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.



*Joint IAF-ILAC-ISO  
Communiqué on the  
Management Systems Requirements of ISO/IEC 17025:2005,  
General requirements for the competence of testing and  
calibration laboratories*

A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results and calibrations. The **management system requirements** in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 **Quality Management Systems — Requirements** and are aligned with its pertinent requirements.

A handwritten signature in black ink, appearing to read 'A. Gade', written over a horizontal line.

IAF Chair

A handwritten signature in black ink, appearing to read 'Ruy', written over a horizontal line.

ILAC Chair

A handwritten signature in black ink, appearing to read 'Rob Steele', written over a horizontal line.

ISO Secretary General

January 2009

Healthcare, Environment and Food Division  
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Degerfors Laboratorium AB

Box 54  
693 21 DEGERFORS

### **Decision concerning changed accreditation** (3 appendices)

This decision replaces earlier issued decision dated 2010-03-29, reference number 09-2513-51.1890.

Degerfors Laboratorium AB, organisation registration number 556609-0444, has applied to Swedish Board for Accreditation and Conformity Assessment, for changed of its accreditation in the field of analysis of metallic materials.

Based on the received application, the assessment report dated 2011-12-07, and your reports on actions taken to correct non-conformities, SWEDAC hereby decides, in accordance with article 5 point 1 in the Regulation (EC) No 765/2008 of the European Parliament and of the Council setting out the requirements for accreditation and market surveillance, and the Act (SFS 2011:971) concerning Accreditation and Conformity Assessment, to approve changed accreditation for Degerfors Laboratorium AB, subject to the accreditation terms as set out in Appendix 1. Any change of the terms shall be notified to, and be approved by, Swedac. The scope of the accreditation is set out in Appendix 2, and can be changed only through a new decision by Swedac. The scope of accreditation shows the state valid at the assessment.

The attached accreditation certificate summarises information concerning the accreditation that may be important to the laboratory's customers. The certificate is presented in a form that complies with the guidelines set out in ISO/IEC 17011.

Degerfors Laboratorium AB has previously been assigned accreditation number 1890.

The accreditation applies until further notice. Full renewed assessment is preliminarily planned for april 2013.

Accredited laboratories pay an annual fee in accordance with Swedac's regulations. Your laboratory is in fee group VII. The annual fee shall be paid upon invoice submitted by Swedac. Travelling expenses and cost of technical assessment will be invoiced separately.

This decision has been taken by Maria Wallin, deputy manager for the Healthcare, Food and Environment Division, in consultation with the technical officer responsible for the case, Sophie Svensson.



Maria Wallin  
Deputy Manager

### **Appendices**

1. Terms of accreditation
2. Scope of accreditation
3. ISO-ILAC-IAF kommuniké  
Accreditation certificate

## **Terms of accreditation**

### **1 General terms**

The requirements for accreditation are specified in the following documents:

EA-2/15 - EA Requirements for the Accreditation of Flexible Scopes

STAFS 2010:10 Swedish Board for Accreditation and Conformity Assessment's general regulations for accreditation

STAFS 2011:33 The Swedish Board for Accreditation and Conformity Assessment's regulations for accreditation of laboratories

STAFS 20011:33 includes all the requirements of ISO/IEC 17025.

Specific conditions for accreditation of flexible scope are given in the following document:

EA-2/15 EA Requirements for the Accreditation of Flexible Scope, 5.1.

### **2 Special terms**

#### **2.1 Company/Organisation**

Degerfors Laboratorium AB, Degerfors

Organisation registration number: 556609-0444

#### **2.2 Location**

The accredited activities are conducted at:

Bruksparken, SE- 693 21 Degerfors, Sweden

### **2.3 Flexible scope of accreditation**

Flexible scope of accreditation implies that the laboratory within its accreditation may do changes without applying to Swedac within the following areas:

- Perform modifications of non-standardised methods already included in the decision on accreditation
- Introduce new properties, variables, analysis or range of measurement within an existing accredited method
- Introduce new methods within a specified area
- Introduce new products/new test types within an existing accredited method
- Introduce new versions of standard methods

#### **Specific requirements for accreditation of flexible scope:**

The accredited laboratory shall always be able to present an updated list on the methods used within its accreditation. The list shall show if, how and when flexible scope has been used, new methods, which methods that have been modified or which new analysis that has been introduced within the accreditation of flexible scope.

Prior to Swedac's coming assessment the accredited laboratory shall present a list of which changes that have been introduced since Swedac's latest decision on accreditation.

#### **Limitations:**

Changes of existing methods made by the laboratory shall not imply the introduction of new principles of measurements. The new methods must be based on the same principles of measurements as the existing accredited methods.

**Akrediteringens omfattning/Scope of accreditation**

**Flexibel ackreditering/Flexible scope**

Degerfors Laboratorium AB, DEGERFORS

<b>Analysvariabel</b> <i>Analyzed variabel</i>	<b>Metod (Referens)</b> <i>Method</i>	<b>Mätprincip</b> <i>Principle of measurement</i>	<b>Provtyp</b> <i>Sample type</i>	<b>Mätområde</b> <i>Range</i>
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Kol, C <i>Carbon, C</i>	ASTM E 1019-11, mod. Method 5.4-058M 2012-05-04	LECO CS-444 LECO CS-600	Stål, Gjutjärn Ferrokrom, Ferromangan <i>Steel, Cast Iron, Ferro Chromium, Ferro Manganese</i>
Kisel, Si <i>Silicon, Si</i>	ASTM E572-02A, mod. Method 5.4-054M 2010-03-10 Method 5.4-051M 2011-04-26	XRF ARL 9800  ARL 9900	Stål <i>Steel</i>
Kisel, Si <i>Silicon, Si</i>	ASTM E 1999-99 Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>
Kisel, Si <i>Silicon, Si</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>
Kiseldioxid, SiO <sub>2</sub> <i>Silicon dioxide, SiO<sub>2</sub></i>	ISO 9516-1 Method 5.4-051FEMALM 2012-05-04	XRF ARL 9800	Järnmalm <i>Iron ore</i>
Mangan, Mn <i>Manganese, Mn</i>	ASTM E572-02a, mod. Method 5.4-054M 2010-03-10 Method 5.4-051M 2011-04-26	XRF ARL 9800  ARL 9900	Stål <i>Steel</i>
Mangan, Mn <i>Manganese, Mn</i>	ASTM E 1999-99 Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>
Mangan, Mn <i>Manganese, Mn</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>
Mangan, Mn <i>Manganese, Mn</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>

**Akkrediteringens omfattning/Scope of accreditation**      **Flexibel akkreditering/Flexible scope**

Degerfors Laboratorium AB, DEGERFORS

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<b>Mangan, Mn</b> <i>Manganese, Mn</i>	<b>ISO 9516-1</b> <b>Method 5.4-051FEMALM</b> <b>2012-05-04</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Järnmalm</b> <i>Iron Ore</i>
<b>Fosfor, P</b> <i>Phosphorus, P</i>	<b>ASTM E 1086-08</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Steel</b>
<b>Fosfor, P</b> <i>Phosphorus, P</i>	<b>ASTM E 1999-99</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Gjutjärn</b> <i>Cast Iron</i>
<b>Fosfor, P</b> <i>Phosphorus, P</i>	<b>SS-EN 15079:2007</b> <b>Method 5.4-057Cu</b> <b>2012-05-04</b>	<b>OES</b> <b>ARL 4460</b>	<b>Renkoppar</b> <i>Pure Copper</i>
<b>Fosfor, P</b> <i>Phosphorus, P</i>	<b>ISO 9516-1</b> <b>Method 5.4-051FEMALM</b> <b>2012-05-04</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Järnmalm</b> <i>Iron Ore</i>
<b>Svavel, S</b> <i>Sulfur, S</i>	<b>ASTM E 1019-11, mod.</b> <b>Metod 5.4-058M</b> <b>2012-05-04</b>	<b>LECO CS-444</b> <b>LECO CS-600</b>	<b>Stål, Gjutjärn</b> <i>Steel, Cast Iron,</i>
<b>Svavel, S</b> <i>Sulfur, S</i>	<b>SS-EN 15079:2007</b> <b>Method 5.4-057Cu</b> <b>2012-05-04</b>	<b>OES</b> <b>ARL 4460</b>	<b>Renkoppar</b> <i>Pure Copper</i>
<b>Krom, Cr</b> <i>Chromium, Cr</i>	<b>ASTM E572-02a, mod.</b> <b>Method 5.4-054M</b> <b>2010-03-10</b> <b>Method 5.4-051M</b> <b>2011-04-26</b>	<b>XRF</b> <b>ARL 9800</b>  <b>ARL 9900</b>	<b>Stål</b> <i>Steel</i>
<b>Krom, Cr</b> <i>Chromium, Cr</i>	<b>ASTM E 1999-99</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Gjutjärn</b> <i>Cast Iron</i>
<b>Krom, Cr</b> <i>Chromium, Cr</i>	<b>SS-EN 15079:2007</b> <b>Method 5.4-057Cu</b> <b>2012-05-04</b>	<b>OES</b> <b>ARL 4460</b>	<b>Renkoppar</b> <i>Pure Copper</i>



**Akkrediteringens omfattning/Scope of accreditation**

**Flexibel akkreditering/Flexible scope**

Degerfors Laboratorium AB, DEGERFORS

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<b>Krom, Cr</b> <i>Chromium, Cr</i>	<b>ASTM E1621-05</b> <b>Method 5.4-054Cu</b> <b>2011-02-10</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Kopparlegeringar</b> <b>Brass, Bronze</b>
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<b>Kromoxid, Cr<sub>2</sub>O<sub>3</sub></b> <i>Chromiumoxide, Cr<sub>2</sub>O<sub>3</sub></i>	<b>ISO 9516-1</b> <b>Method 5.4-051FEMALM</b> <b>2012-05-04</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Järnmalm</b> <b>Iron Ore</b>
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<b>Nickel, Ni</b> <i>Nickel, Ni</i>	<b>ASTM E572-02a, mod.</b> <b>Method 5.4-054M</b> <b>2010-03-10</b> <b>Method 5.4-051M</b> <b>2011-04-26</b>	<b>XRF</b> <b>ARL 9800</b>  <b>ARL 9900</b>	<b>Stål</b> <b>Steel</b>
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<b>Nickel, Ni</b> <i>Nickel, Ni</i>	<b>ASTM E 1999-99</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Gjutjärn</b> <b>Cast Iron</b>
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<b>Nickel, Ni</b> <i>Nickel, Ni</i>	<b>SS-EN 15079:2007</b> <b>Method 5.4-057Cu</b> <b>2012-05-04</b>	<b>OES</b> <b>ARL 4460</b>	<b>Renkoppar</b> <b>Pure Copper</b>
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<b>Nickel, Ni</b> <i>Nickel, Ni</i>	<b>ASTM E1621-05</b> <b>Method 5.4-054Cu</b> <b>2011-02-10</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Kopparlegeringar</b> <b>Brass, Bronze</b>
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<b>Nickeloxid, NiO</b> <i>Nickel oxide, NiO</i>	<b>ISO 9516-1</b> <b>Method 5.4-051FEMALM</b> <b>2012-05-04</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Järnmalm</b> <b>Iron Ore</b>
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<b>Molybden, Mo</b> <i>Molybdenum, Mo</i>	<b>ASTM E572-02a, mod.</b> <b>Method 5.4-054M</b> <b>2010-03-10</b> <b>Method 5.4-051M</b> <b>2011-04-26</b>	<b>XRF</b> <b>ARL 9800</b>  <b>ARL 9900</b>	<b>Stål</b> <b>Steel</b>
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<b>Molybden, Mo</b> <i>Molybdenum, Mo</i>	<b>ASTM E 1999-99</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Gjutjärn</b> <b>Cast Iron</b>
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**Akkrediteringens omfattning/Scope of accreditation**

**Flexibel akkreditering/Flexible scope**

Degerfors Laboratorium AB, DEGERFORS

<b>Analysvariabel</b> <i>Analyzed variabel</i>	<b>Metod (Referens)</b> <i>Method</i>	<b>Mätprincip</b> <i>Principle of measurement</i>	<b>Provtyp</b> <i>Sample type</i>	<b>Mätområde</b> <i>Range</i>
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Titan, Ti <i>Titanium, Ti</i>	ASTM E572-02a, mod. Method 5.4-054M 2010-03-10 Method 5.4-051M 2011-04-26	XRF ARL 9800  ARL 9900	Stål <i>Steel</i>	
Titan, Ti <i>Titanium, Ti</i>	ASTM E 1999-99 Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>	
Titandioxid, TiO <sub>2</sub> <i>Titaniumdioxide, TiO<sub>2</sub></i>	ISO 9516-1 Method 5.4-051FEMALM 2012-05-04	XRF ARL 9800	Järnmalm <i>Iron Ore</i>	
Niob, Nb <i>Niobium, Nb</i>	ASTM E572-02a, mod. Method 5.4-054M 2010-03-10 Method 5.4-051M 2011-04-26	XRF ARL 9800  ARL 9900	Stål <i>Steel</i>	
Koppar, Cu <i>Copper, Cu</i>	ASTM E572-02a, mod. Method 5.4-054M 2010-03-10 Method 5.4-051M 2011-04-26	XRF ARL 9800  ARL 9900	Stål <i>Steel</i>	
Koppar, Cu <i>Copper, Cu</i>	ASTM E 1999-99 Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>	
Koppar, Cu <i>Copper, Cu</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	
Koppar, Cu <i>Copper, Cu</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>	
Kobolt, Co <i>Cobalt, Co</i>	ASTM E572-02a, mod. Method 5.4-054M 2010-03-10 Method 5.4-051M 2011-04-26	XRF ARL 9800  ARL 9900	Stål <i>Steel</i>	

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Kobolt, Co <i>Cobalt, Co</i>	ASTM E 1086-08 Method 5.4-057M 2011-02-21	OES ARL 4460	Steel	
Kobolt, Co <i>Cobalt, Co</i>	ASTM E 1999-99 Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>	
Kobolt, Co <i>Cobalt, Co</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	
Kväve, N <i>Nitrogen, N</i>	ASTM E1019-11, mod. Metod 5.4-059M 2010-12-13	LECO TN-114 LECO TCH-600	Stål <i>Steel</i>	
Tenn, Sn <i>Tin, Sn</i>	ASTM E572-02a, mod. Method 5.4-054M 2010-03-10 Method 5.4-051M 2011-04-26	XRF ARL 9800  ARL 9900	Stål <i>Steel</i>	
Tenn, Sn <i>Tin, Sn</i>	ASTM E 1999-99 Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>	
Tenn, Sn <i>Tin, Sn</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	
Tenn, Sn <i>Tin, Sn</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>	
Arsenik, As <i>Arsenic, As</i>	ASTM E 1086-08 Method 5.4-057M 2011-02-21	OES ARL 4460	Steel	
Arsenik, As <i>Arsenic, As</i>	ASTM E 1999-99 Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>	
Arsenik, As <i>Arsenic, As</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	

**Akkrediteringens omfattning/Scope of accreditation**      **Flexibel akkreditering/Flexible scope**

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<b>Arsenik, As</b> <i>Arsenic, As</i>	<b>ASTM E1621-05</b> <b>Method 5.4-054Cu</b> <b>2011-02-10</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Kopparlegeringar</b> <b>Brass, Bronze</b>
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<b>Wolfram, W</b> <i>Tungsten, W</i>	<b>ASTM E572-02a, mod.</b> <b>Method 5.4-054M</b> <b>2010-03-10</b> <b>Method 5.4-051M</b> <b>2011-04-26</b>	<b>XRF</b> <b>ARL 9800</b>  <b>ARL 9900</b>	<b>Stål</b> <i>Steel</i>
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<b>Vanadin, V</b> <i>Vanadium, V</i>	<b>ASTM E572-02a, mod.</b> <b>Method 5.4-054M</b> <b>2010-03-10</b> <b>Method 5.4-051M</b> <b>2011-04-26</b>	<b>XRF</b> <b>ARL 9800</b>  <b>ARL 9900</b>	<b>Stål</b> <i>Steel</i>
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<b>Vanadin, V</b> <i>Vanadium, V</i>	<b>ASTM E 1999-99</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Gjutjärn</b> <i>Cast Iron</i>
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<b>Vanadinoxid, V2O5</b> <i>Vanadium oxide, V2O5</i>	<b>ISO 9516-1</b> <b>Method 5.4-051FEMALM</b> <b>2012-05-04</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Järnmalm</b> <i>Iron Ore</i>
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<b>Aluminium, Al</b> <i>Aluminium, Al</i>	<b>ASTM E 1086-08</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Steel</b>
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<b>Aluminium, Al</b> <i>Aluminium, Al</i>	<b>ASTM E 1999-99</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Gjutjärn</b> <i>Cast Iron</i>
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<b>Aluminium, Al</b> <i>Aluminium, Al</i>	<b>ASTM E1621-05</b> <b>Method 5.4-054Cu</b> <b>2011-02-10</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Kopparlegeringar</b> <b>Brass, Bronze</b>
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<b>Aluminiumoxid, Al2O3</b> <i>Aluminium oxide Al2O3</i>	<b>ISO 9516-1</b> <b>Method 5.4-051FEMALM</b> <b>2012-05-04</b>	<b>XRF</b> <b>ARL 9800</b>	<b>Järnmalm</b> <i>Iron Ore</i>
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<b>Bor, B</b> <i>Boron, B</i>	<b>ASTM E 1086-08</b> <b>Method 5.4-057M</b> <b>2011-02-21</b>	<b>OES</b> <b>ARL 4460</b>	<b>Steel</b>
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**Akkrediteringens omfattning/Scope of accreditation**      **Flexibel akkreditering/Flexible scope**

Degerfors Laboratorium AB, DEGERFORS

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Bor, B <i>Boron,</i>	ASTM E 1999-99 Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>	
Järn, Fe <i>Iron, Fe</i>	ISO 9516-1 Method 5.4-051FEMALM 2012-05-04	XRF ARL 9800	Järnmalm <i>Iron Ore</i>	
Järn, Fe <i>Iron, Fe</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	
Järn, Fe <i>Iron, Fe</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>	
Magnesium, Mg Magnesium, Mg	ASTM E 1999-99 mod Method 5.4-057M 2011-02-21	OES ARL 4460	Gjutjärn <i>Cast Iron</i>	
Magnesiumoxid, MgO Magnesium oxide, MgO	ISO 9516-1 Method 5.4-051FEMALM 2012-05-04	XRF ARL 9800	Järnmalm <i>Iron Ore</i>	
Bly, Pb <i>Lead, Pb</i>	JK 250D, 1978 Method 5.4-067M 2011-10-27	Grafitugn AAS <i>Graphite Furnace AAS</i>	Stål <i>Steel</i>	
Bly, Pb <i>Lead, Pb</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	
Bly, Pb <i>Lead, Pb</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>	
Bismuth, Bi <i>Bismuth, Bi</i>	JK 250D, 1978 Method 5.4-067M 2011-10-27	Grafitugn AAS <i>Graphite Furnace AAS</i>	Stål <i>Steel</i>	
Bismuth, Bi <i>Bismuth, Bi</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	

**Akkrediteringens omfattning/Scope of accreditation**      **Flexibel akkreditering/Flexible scope**

Degerfors Laboratorium AB, DEGERFORS

<b>Analysvariabel</b> <i>Analyzed variabel</i>	<b>Metod (Referens)</b> <i>Method</i>	<b>Mätprincip</b> <i>Principle of measurement</i>	<b>Provtyp</b> <i>Sample type</i>	<b>Mätområde</b> <i>Range</i>
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Bismuth, Bi <i>Bismuth, Bi</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>
Silver, Ag <i>Silver, Ag</i>	JK 250D, 1978 Method 5.4-067M 2011-10-27	Grafitugn AAS <i>Graphite Furnace AAS</i>	Renkoppar <i>Pure Copper</i>
Silver, Ag <i>Silver, Ag</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>
Antimon, Sb <i>Antimony, Sb</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>
Antimon, Sb <i>Antimony, Sb</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>
Zink, Zn <i>Zinc, Zn</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>
Zink, Zn <i>Zinc, Zn</i>	ASTM E1621-05 Method 5.4-054Cu 2011-02-10	XRF ARL 9800	Kopparlegeringar <i>Brass, Bronze</i>
Zinkoxid, ZnO <i>Zinc oxide, ZnO</i>	ISO 9516-1 Method 5.4-051FEMALM 2012-05-04	XRF ARL 9800	Järnmalm <i>Iron Ore</i>
Calciumoxid, CaO <i>Calciumoxide, CaO</i>	ISO 9516-1 Method 5.4-051FEMALM 2012-05-04	XRF ARL 9800	Järnmalm <i>Iron Ore</i>
Kaliumoxid, K <sub>2</sub> O <i>Potassium oxide, K<sub>2</sub>O</i>	ISO 9516-1 Method 5.4-051FEMALM 2012-05-04	XRF ARL 9800	Järnmalm <i>Iron Ore</i>
Selen, Se <i>Selenium, Se</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>

**Ackrediteringens omfattning/Scope of accreditation**

**Flexibel ackreditering/Flexible scope**

Degerfors Laboratorium AB, DEGERFORS

<b>Analysvariabel</b> <i>Analyzed variabel</i>	<b>Metod (Referens)</b> <i>Method</i>	<b>Mätprincip</b> <i>Principle of measurement</i>	<b>Provtyp</b> <i>Sample type</i>	<b>Mätområde</b> <i>Range</i>
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Tellur, Te <i>Tellurium, Te</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	
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Cadmium, Cd <i>Cadmium, Cd</i>	SS-EN 15079:2007 Method 5.4-057Cu 2012-05-04	OES ARL 4460	Renkoppar <i>Pure Copper</i>	
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Förändringar är markerade med fet stil. *Changes are marked with bold style.*

Provtagning omfattas inte av ackrediteringen. Om laboratoriet ändå själv utför provtagning omfattas provningen inte av ackrediteringen. */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.*

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