

ISE SERVICES OVERVIEW



2026

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About Us

The Institute for Rare Earth Elements and Metals AG stores, analyses and evaluates high-purity metals and rare earth elements. The Institute for Rare Earth Elements and Metals was founded with the aim of directly connecting European industrial companies with mining operations.

An insecure supply chain for rare earth elements and other raw materials classified as critical brought together experts from various fields in 2008. After supply shortages were considered to have been overcome in 2011, a formal association was established as a non-profit organisation to maintain and strengthen the organically developed network of contacts.

Since 2011, we have recorded prices for a wide range of metals and related products, all of which are documented and maintained within our database.



Your independent inspection partner for metals

The Institute for Rare Earth Elements and Metals AG operates entirely independently of financial institutions, clients, insurance companies and other platforms. It does not hold its own raw material inventories and is neither engaged in the purchase, sale nor brokerage of metals. Furthermore, its activities are not commission-based.



Services & Solutions

We offer comprehensive and professional services in the field of rare earth elements and metals – ranging from evaluation and analysis to audits and consulting. Through our extensive network and many years of experience, we provide reliable information and well-founded assessments for companies, investors and financial institutions. Our services stand for expertise, transparency and the highest quality standards. Do you have specific requirements or particular requests?

Please contact us – we will find the optimal solution for your needs.

ISE Certification



Service	Description	Price per Document
1. Inspection	Cross Inspection (existing packing list) Full Commodity Inspection (no existing packing list)	CHF 3.500,00 from CHF 3.500,00 then CHF 19,00 (per unit)
2. Sampling	Random sampling carried out by authorised ISE personnel	CHF 1.500,00 (flat rate)
3. Sampling Report	Preparation of a detailed report (approx. 12-28 pages) documenting the sampling process	CHF 1.500,00
4. Analysis	Performance of chemical and/or physical analyses depending on the material and specific requirements. Scope and methodology vary according to the specification.	from CHF 2.000,00
5. Evaluation	Evaluation summary Two-page assessment for high-purity and speciality materials including an indicative price for the smallest tradable unit (gram range). Not linearly transferable to larger quantities.	from CHF 3.000,00
6. SKR	Issuance and administration of Safe Keeping Receipt (SKR) documents in Switzerland and the UAE. Valid only with prepaid storage fees (minimum term: 6 months). No further services will be provided in the event of outstanding fees.	1. SKR CHF 300,00 2. SKR CHF 650,00 1. SKR VAE CHF 500,00 2. SKR VAE CHF 1.000,00
7. Certificate of Ownership	Issuance of a Certificate of Ownership confirming the lawful ownership of the material. Legally valid document for your records.	Free of charge

Inspection

There are two types of inspections carried out by the ISE. If no packing list is available, a full inspection must be conducted. During this process, every box is opened and every bottle, spool, bar, etc. is numbered, weighed and photographed. All data is recorded in a newly created inventory list.

If a packing list has already been provided by the client, the ISE generally performs a “cross inspection”. As an alternative to a full inspection, the ISE inspector randomly selects boxes and individual units in order to verify their weight and compare the results with the corresponding values stated in the packing list. The documentation process is carried out in the same manner as for a full inspection.



INSPECTION REPORT



Depending on the scope and quantity of the goods, the inspection report is a 20- to 100-page document providing detailed information on the internal and external condition of both the packaging and the goods themselves. Each individual unit is listed together with the corresponding photographs and recorded data, thereby providing a reliable overview of the quantity and condition of the materials inspected.

DURING AND AFTER THE INSPECTION

Each individual unit and every box are assigned unique identification numbers



Sealing of each unit and every box upon completion of the inspection



Safeguarding the integrity and traceability of the entire consignment

Prices

Cross-Check Inspection CHF 3.500,00

Full Commodity Inspection from CHF 3.500,00 then CHF 19,00 (per unit)



Sampling & Sampling Report

The following questions are addressed during the sample taking process: who took the sample, when and where it was taken, which standards were followed, how the sample was taken, and which sample was collected.

The sample taking procedure and the corresponding Sample Taking Report provide the future owner or auditor of the goods with the assurance that the sample was taken from the exact same batch that is stored in the warehouse and for which an inspection report has already been prepared.

Many goods are packaged in a highly specific manner and should not be opened by untrained personnel. For example, numerous nanopowders are packaged under protective gas atmospheres to prevent oxidation caused by their extremely large surface area.

The sample taking should always be carried out by a qualified inspector.



SAMPLE TAKING REPORT

Depending on the quantity of the goods, the Sample Taking Report is an 8- to 36-page document providing detailed photographic and recorded information on the exact box and individual unit from which the sample was taken.

WHAT IS DOCUMENTED ?



WHO
took the
sample



WHEN
the sample
was taken



WHERE
the sample
was taken



HOW
the sample
was taken



WHICH
sample
was taken

Prices

Sample Taking
Sample Taking Report

CHF 1.500,00
CHF 1.500,00



Analysis



Analytics at the highest level

Our metal analyses are carried out in ISO 17025-certified laboratories using state-of-the-art technologies and highly experienced chemists. The analytical process includes sample preparation, digestion procedures (e.g. acid digestion), and the actual measurement using methods such as XRF, ICP-OES, ICP-MS and GD-MS.

Processing time is generally between 7 and 12 working days. Even highly complex analyses are performed reliably and with the utmost precision.



ISO 17025
certified
laboratories



State-of-the-art
analytical
equipment



Experienced
chemists



**Processing
time**
7-12
working days

THE ANALYSIS IN 3 STEPS

①

SAMPLE PREPARATION

The sample is mechanically homogenised and prepared in a suitable form for analysis.



②

DIGESTION

For ICP-OES / ICP-MS analysis, digestion of the metal is required, for example by acid digestion (HNO_3/HCl ; $\text{H}_2\text{SO}_4/\text{HCl}$; $\text{H}_2\text{O}_2/\text{HCl}$).



③

ANALYSIS

The actual analytical process is carried out in the third step using modern analytical techniques.

Analysis of Soil Samples and Mineral Materials

The ISE AG carries out detailed investigations of soil samples, clay-like earths, sands and rocks. The objective is the precise determination of the chemical composition, mineralogical phases and physical properties of these materials.

Our analyses provide the basis for geochemical assessments, raw material characterisation and process engineering applications. Through standardised sample preparation, validated procedures and the use of high-resolution analytical technologies, we ensure the highest level of data quality and comparability.



Applied Methods	Price
ICP-OES / ICP-MS (Inductively Coupled Plasma) Quantitative determination of major, minor and trace elements following digestion procedures (e.g. acid digestion or fusion digestion).	CHF 1.800,00
XRF (X-ray Fluorescence Analysis) Non-destructive multi-element analysis for determining the overall composition of solid samples.	CHF 900,00
XRD (X-ray Diffraction) Qualitative and quantitative phase analysis for the identification of crystalline mineral components.	CHF 700,00
SEM with EDS (Scanning Electron Microscopy) High-resolution investigation of morphology, particle sizes and local elemental distribution.	CHF 1.600,00
LOI (Loss on Ignition) Determination of volatile constituents, organic content and carbonate levels through thermal treatment.	CHF 300,00
Particle Size Analysis (Sieving / Laser Diffraction) Determination of particle size distribution for the classification of sediments and powders.	CHF 600,00

ISE AG stands for highly precise, reproducible analytics and extensive expertise in the characterisation of mineral raw materials.

Material Testing & Elemental Analysis of Metals

The ISE AG offers highly precise material testing and elemental analysis for homogeneous metals and ingots. The objective is the accurate determination of chemical composition as well as the assessment of purity and material quality – essential for industrial applications, trading and quality control.

By using state-of-the-art analytical methods, we ensure reliable and reproducible results, including in the trace and ultra-trace range.



Applied Methods	Price
ICP-OES / ICP-MS (Inductively Coupled Plasma) Quantitative determination of major, minor and trace elements following digestion procedures (e.g. acid digestion or fusion digestion)	CHF 1.800,00
XRF (X-ray Fluorescence Analysis) Rapid, minimally destructive determination of the elemental composition of homogeneous metal samples	CHF 900,00
GDMS (Glow Discharge Mass Spectrometry) Direct analysis of solid metallic samples for the determination of trace and ultra-trace elements with the highest level of sensitivity	CHF 2.000,00

ISE AG stands for precise analytics, the highest quality standards and in-depth expertise in the evaluation of metallic materials.

Material Testing of Metallic Powders

The ISE AG offers specialised material testing for metallic powders to ensure the precise determination of purity, elemental composition and particle properties. These analyses are essential for quality control, process optimisation and use in demanding industrial applications.

By employing high-resolution analytical methods, we provide reliable results down to the trace and ultra-trace range, together with detailed characterisation of particle morphology.



Applied Methods	Price
SEM (Scanning Electron Microscopy) Investigation of particle size, morphology, surface structure and agglomeration, optionally combined with EDS for local elemental analysis.	CHF 1.600,00
GDMS (Glow Discharge Mass Spectrometry) Direct analysis for the highly sensitive determination of trace elements and impurities in metallic powders.	CHF 2.000,00
Custom Analytical Table (Customer-Specific Specification) Preparation of a secondary analytical table based on customer-specific requirements. The analytical results are recalculated and presented in accordance with the ISE "Metal Base" methodology, whereby the total impurity content is determined across elements No. 2–92.	CHF 500,00

Applied Methods	Price
The report is produced in accordance with the customer's specific ISE specifications and is particularly suitable for high-purity metals. It is based on a comprehensive GC/MS analysis. Selected elements are assessed in terms of their physical, electrical and process-related risk profiles and identified as critical impurities. On request, a fully customised analysis table can be produced, containing additional elements specified by the customer.	

ISE AG stands for precise, reproducible analytics and comprehensive expertise in the characterisation of metallic powders.

Material Testing of Metallic Powders

The ISE AG offers comprehensive testing procedures for the characterisation of metallic powders. Each analysis provides essential information regarding quality, processability and suitability for application.

Applied Methods	Price
Moisture / LOI (Moisture and Loss on Ignition Determination) Determination of moisture content and volatile constituents through controlled heating. Essential for assessing storage stability and material purity.	CHF 300,00
Oxygen Content (LECO Analysis) Precise measurement of the oxygen content within the material. A critical parameter for evaluating oxidation levels and overall material quality.	CHF 600,00
PSD (Particle Size Distribution – Laser Diffraction) Analysis of particle size distribution (D10, D50, D90) including distribution curves. Essential for evaluating flow behaviour, packing density and processing characteristics.	CHF 600,00
Apparent Density (Bulk Density) Determination of the apparent density of a powder in accordance with recognised standards. Relevant for storage, transport and dosing applications.	CHF 300,00
Tap Density Measurement of density after mechanical compaction. Provides important information regarding compressibility and packing behaviour.	CHF 500,00
BET (Specific Surface Area) Determination of the specific surface area of a powder. Particularly relevant for reactivity, sintering behaviour and chemical processes.	CHF 500,00
Flow Rate (Flowability) Determination of flow behaviour using standardised testing procedures. Essential for industrial processing and dosing performance.	CHF 300,00

Applied Methods	Price
Radioactivity Testing Certification of non-radioactivity using appropriate screening methods. Important for safety, transport and compliance with international trade requirements.	CHF 500,00
TGHE Analysis (Thermal Gas Hot Extraction) Determination of the total oxygen content in copper powder using Thermal Gas Hot Extraction (TGHE). The analysis includes heating the sample under an inert carrier gas atmosphere (helium), the quantitative measurement of oxygen released from copper oxides (Cu ₂ O / CuO), as well as the evaluation and documentation of the oxidation level.	CHF 600,00
TEM Analysis (Transmission Electron Microscopy) High-resolution particle characterisation using Transmission Electron Microscopy (TEM), including sample preparation, performance of the analysis by a partner laboratory, and the provision of TEM images together with a basic evaluation of particle size and morphology.	CHF 1.200,00

ISE AG stands for standardized, reproducible analytical methodologies and comprehensive expertise in the characterization of metallic powders.

Material Testing of Metallic Wires

The ISE AG offers precise material testing for metallic wires, such as fine nickel wires (\varnothing 0.025 mm). The focus lies on the accurate determination of chemical composition, the analysis of trace elements and the assessment of material purity – essential for applications with the highest quality requirements.

By employing highly sensitive analytical methods, we ensure reliable and reproducible results, even with very small sample quantities.




Applied Methods	Price
GDMS (Glow Discharge Mass Spectrometry) Direct analysis of metallic samples for the determination of trace and ultra-trace elements with the highest level of sensitivity.	CHF 2.000,00
Wire Diameter Determination (SEM Analysis 5–10 m) Analysis of a wire segment to determine diameter and material homogeneity using Scanning Electron Microscopy (SEM) together with a weight-based calculation method.	CHF 1.500,00
Analysis in Accordance with different standards Chemical composition analysis in accordance with an analysis table #2 following different standards, including the determination of the specified accompanying elements and impurities.	CHF500,00

ISE AG stands for the highest analytical precision and in-depth expertise in the evaluation of specialised metallic materials.






Forensic Metal Analysis


The ISE AG offers specialised forensic analyses for the clear identification and origin determination of metals. By employing highly precise analytical methods, composition, impurity profiles and material-specific signatures are examined in detail. The objective is to ensure the traceability of materials throughout the supply chain and to clarify authenticity, origin and potential manipulation. The results provide reliable, scientifically substantiated foundations for legal, industrial and security-related matters.



 **Price:** Upon request

YOUR ADVANTAGES WITH ISE AG

 HIGHEST PRECISION State-of-the-art equipment and validated methods for accurate and reproducible results.	 RELIABLE QUALITY ISO 17025, 17020, 9001-certified processes and regular audits of our laboratory partners.	 COMPREHENSIVE EXPERTISE Experienced chemists and engineers with extensive know-how in material analysis.	 FAST RESULTS Efficient processes and short turnaround times of only 7–12 working days.	 INFORMATIVE REPORTS Clear and comprehensible reports featuring precise data, graphs and well-founded interpretations.
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 **All analyses are documented in a concise test report tailored specifically to the respective material.**

Evaluation

Metal Valuation & Price Database

The ISE AG maintains a publicly accessible price database containing more than 21,000 real-time metal prices, continuously developed since 2011. The database distinguishes between pure metals (valued linearly) and metal products (valued degressively) and forms the basis for well-founded market analyses.

Based on its own analytical data, ISE AG prepares independent metal valuations that provide a reliable foundation for sales, financing and negotiations. Each valuation is based on verified data, physical inspections and an international network of producers, traders and end users. ISE stands for objective, market-oriented price determination and the highest level of transparency in the valuation of metallic raw materials.



REQUIREMENTS FOR THE PREPARATION OF A VALUATION



Every consignment must have been inspected and photographed by an ISE representative.



An ISE analysis always forms the basis of an ISE valuation.



Analyses issued by any other institutes are not accepted.



Every client confirms that they have read and understood the general terms and conditions.



Every client acknowledges that valuations for metal products cannot be scaled linearly.

Price



Evaluation CHF 3.000,00

Evaluation Audit

The ISE AG Valuation Audit is a comprehensive report (50–80 pages) providing a holistic analysis of your goods. It covers the market environment, occurrence, production, applications, as well as relevant market participants and specific market characteristics. Based on international valuation standards (IFRS 13), the total value of your consignment is determined in a well-founded and transparent manner. The audit is prepared within 3–5 weeks and provided both as a PDF document and in bound format.

ISE stands for transparent, structured and market-oriented valuation processes.



THE FOLLOWING DOCUMENTS ARE REQUIRED FOR THE PREPARATION OF THE AUDIT



Letter of
Engagement (PDF)



ISE
Valuation



Analysis
Report(s)



Sample Taking
Report



Warehouse
Receipt



Photographs



Import /
Export Permits



Certificate of
Origin



Manufacturer's
Data Sheet



Packing
List

Price



Evaluation Audit CHF 42.500,00

The Safe Keeping Receipt

The Safe Keeping Receipt certifies the storage of your goods within a bonded warehouse.

It includes references to:



Inspection Report



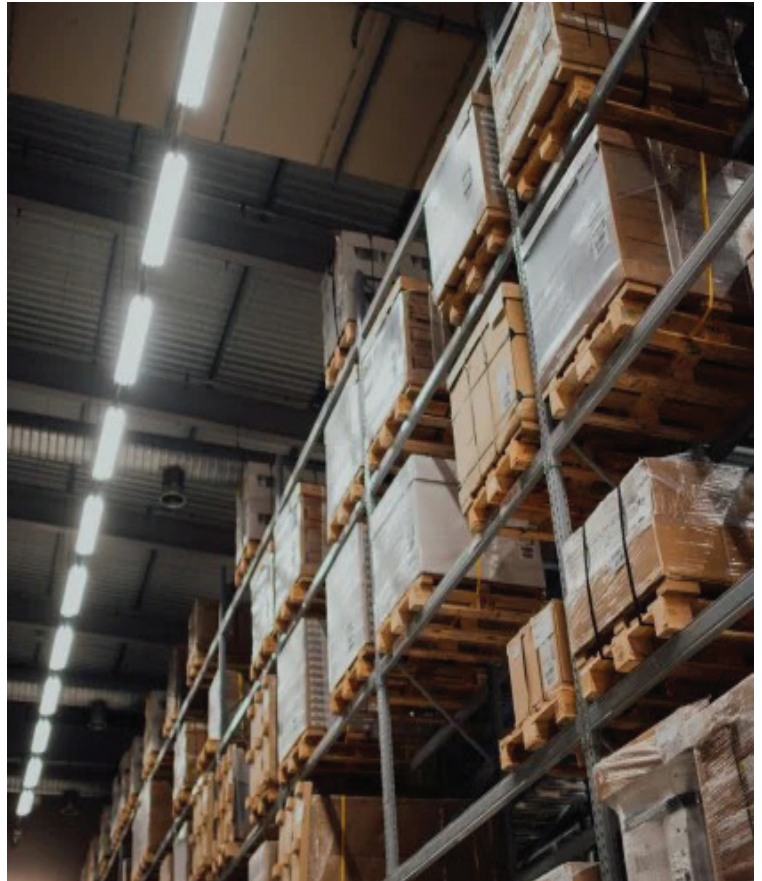
Sample Taking Report



Analysis Results



Valuation Report



KEY FEATURES

1

Clear identification of the goods

2

Separation between the beneficial owner (UBO) and the SKR holder possible

3

Legitimation for transactions (e.g. sale transactions)

Prices

1. SKR Switzerland CHF 300,00
2. SKR Switzerland CHF 650,00

1. SKR Dubai CHF 500,00
2. SKR Dubai CHF 1.000,00



Certificate Of Ownership

The Certificate of Ownership is the ultimate proof of ownership:



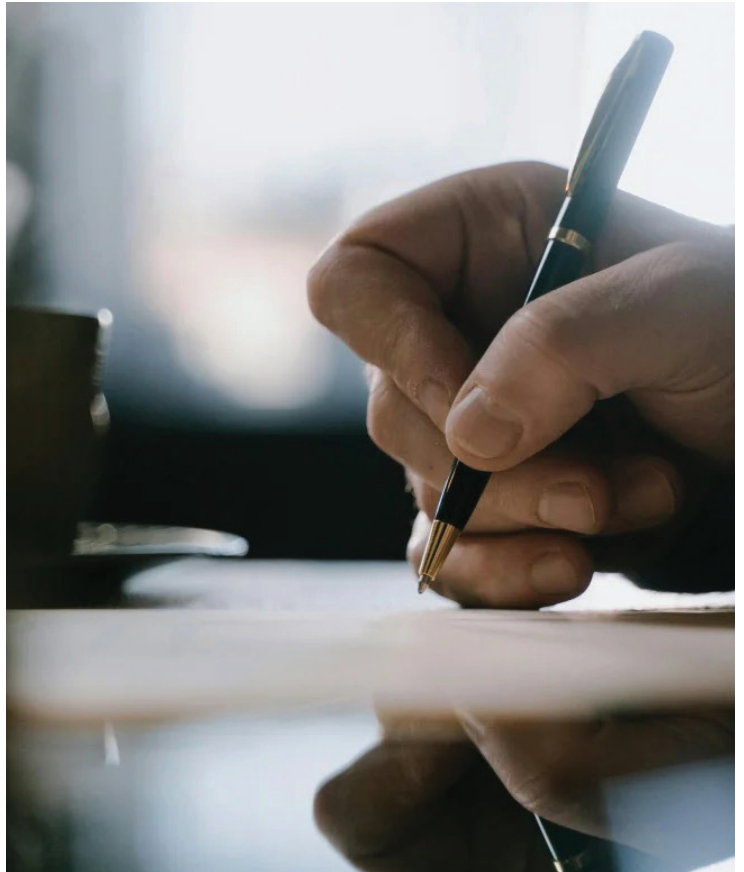
Issued exclusively as a one-time hard copy document



Certification of the Ultimate Beneficial Owner (UBO)



Amendments possible only in the event of a sale



The Certificate of Ownership is issued exclusively as an original hard copy document and is subject to the highest security standards.

It serves as a legally recognised proof of the beneficial owner and constitutes an essential basis for ownership transactions.

Price

Free of charge



Additional Inspector Services

Individual assignments and additional services provided by the ISE inspector are charged separately depending on the scope and level of effort involved.



Travel and Deployment Costs of the ISE Inspector

Travel to and from the assignment location by the ISE inspector from Lucerne (Switzerland), including return travel. Where required, the assignment may include an on-site stay together with any related accommodation and subsistence expenses.



Travel and expense costs are charged on a flat-rate basis.



Price: Upon request



ISE Inspector's Report

The ISE Inspector's Report documents all changes made to an existing and previously recorded product. This includes, among other things, the opening and resealing of goods following an inspection, partial sales of documented goods, as well as any modification that deviates from the original documentation.

The report ensures complete traceability and transparency by recording all relevant changes in a formal and verifiable manner.



Price: CHF 1.500,00



Proof of Life (POF) with an ISE Inspector

Client inspection ("Proof of Life") of goods in the presence of an ISE inspector, including the opening of packaging.



Price: CHF 1.500,00



Proof of Life (POF) with ISE Inspector – External

External "Proof of Life" inspection carried out by an ISE inspector without opening the packaging.

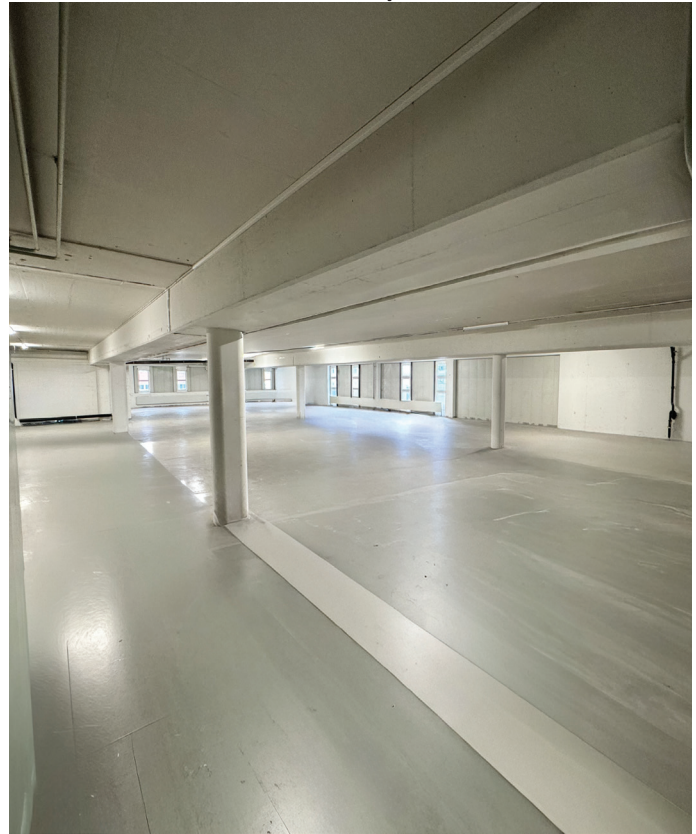



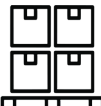
Price: CHF 250,00

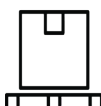

Storage

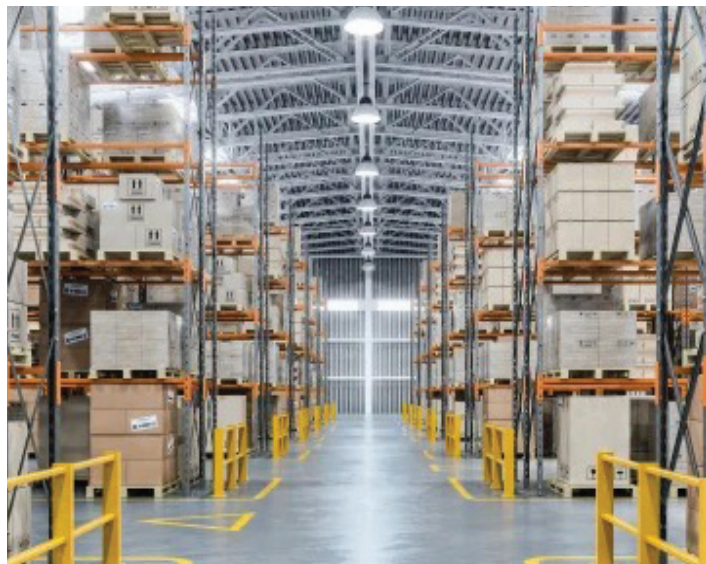
The Institute for Rare Earth Elements and Metals AG operates state-of-the-art high-security storage facilities within the Embraport area in Embrach/Kloten near Zurich, a Swiss customs-controlled zone. The facilities are specifically designed for the secure storage of sensitive metallic powders, metals and precious metals. ISE AG operates both an open bonded warehouse and a closed bonded warehouse. Both facilities are equipped with temperature and humidity monitoring, modern fire protection systems, video surveillance and alarm security, ensuring the highest security standards. The closed free-zone facility is additionally GRASP-certified and suitable for the storage of all types of precious metals. The storage facilities combine flexible bonded warehouse solutions with optimal access to international transport routes. The offering is complemented by a high-security storage facility within the Dubai Free Zone, enabling the efficient and secure handling of global metal and precious metal flows.

STORAGE ZURICH / EMBRACH



STORAGE PRICES ZURICH / EMRACH		
	Per pallet up to max. 750kg	CHF 200,00 / month
	Each additional pallet up to max. 750 kg	CHF 200,00 / month

STORAGE PRICES DUBAI		
	Per pallet up to max. 750 kg	CHF 1.000,00 / month
	Each additional pallet up to max. 750 kg	CHF 1.000,00 / month



Logistics & Additional Costs

Since 2011, the Institute for Rare Earth Elements and Metals has been your reliable partner for the analysis and valuation of rare earth elements and high-purity metals. Since 2020, we have also been offering comprehensive storage and logistics services, including transport organisation, customs clearance and collection services. For these services, we work together with two established Swiss partner companies with more than 45 years of experience in handling high-value goods. Their expertise lies in the secure storage, professional packaging and worldwide transportation of metals and valuable commodities.



MAXIMUM SECURITY

Certified storage facilities and the highest security standards.



BONDED WAREHOUSE SOLUTIONS

Flexible solutions for national and international bonded storage.



GLOBAL CONNECTIVITY

Optimal access to international transport routes.



TRUST & EXPERIENCE

More than 45 years of experience in handling high-value goods.

Transport Organisation & Insurance

Organisation of the transportation of your goods to our storage facilities – including planning, coordination and execution in accordance with the specific requirements of the material and logistics involved. The full declared value of the goods, as stated in the proforma invoice, is insured at 100%. Additional costs may arise for export handling and customs clearance in the country of origin. In accordance with insurance requirements, transportation is carried out exclusively as direct transport (no consolidated shipments) and without transshipment. In addition, an insurance fee amounting to 2% of the declared transport value applies.



Request for quotation



Type of metal



Total shipment weight



Collection address



Delivery address



Customs documents / commercial invoice (for cross-border shipments)



Photographs



Dimensions of the goods to be transported (in centimetres: length x height x width)

Price: Upon request




Sea Freight Packaging for Metals

The ISE AG offers professional sea freight packaging solutions for metals and precious metals, specifically designed to ensure protection during long transport and storage periods. Through the use of high-quality packaging materials and controlled packaging processes, the material is reliably protected against moisture, corrosion and mechanical impact. Individually tailored packaging concepts ensure optimum durability and value preservation, even under demanding climatic conditions and during intercontinental transportation.

ISE stands for safe, standards-compliant and durable packaging solutions throughout the global supply chain.




Price: Upon request 

Material Processing



Micro-Refinement of Ultra-Fine Powders

Ultra-fine micro and nanopowders offer numerous advantages; however, due to their large surface area, they are particularly susceptible to oxidation. The ISE AG provides specialised processes for extending the shelf life and reconditioning such sensitive materials. Through multi-stage procedures including fine sieving, ultrasound-assisted particle optimisation and treatment within an argon vacuum tumbler, the structure, purity and stability of the powders are specifically enhanced. Subsequent packaging under protective gas atmosphere in high-quality membrane-sealed containers ensures long-term storage stability of up to 10–15 years. ISE stands for the highest precision, quality and sustainable value preservation in the processing of highly sensitive metallic powders.

Price: Upon request 

ISE Price Database

Over 21,000 Real-Time Metal Prices

The Institute for Rare Earth Elements and Metals AG maintains a publicly accessible price database containing more than 21,000 real-time metal prices, continuously developed since 2011.

The database distinguishes between pure metals (valued linearly) and metal products (valued degressively) and forms the basis for well-founded market analyses.



A database of this scale is unique within the market.



Register now: <https://ise-metal-quotes.com>



21.000+
Real-Time
Metal Prices



SINCE 2011
Continuously
developed and
expanded



REAL-TIME DATA
Up-to-date and
reliable



**WORLDWIDE
ACCESSIBILITY**
Available anytime
and anywhere

Package Selection

Free	12 Months	12 Months	12 Months	Upon Request
Average Prices	Metal Prices	Metal Product Prices	All-In-One (Bestseller)	VIP
€ 0	€ 900	€ 900	€ 1600	€ Custom Pricing
<ul style="list-style-type: none"> For all pupils and students, we provide the average prices of the last six months free of charge. The quoted prices may differ from current market prices, but they offer a useful indication. 	<ul style="list-style-type: none"> Prices for more than 900 metals in various grades and from different countries of origin CSV download Daily updates Price trends Historical price data covering the past 10–13 years Subscription ends automatically Worldwide access 	<ul style="list-style-type: none"> Prices for more than 4,500 metal products in various grades and from different countries of origin CSV download Daily updates Price trends Historical price data covering the past 10–13 years Subscription ends automatically Worldwide access 	<ul style="list-style-type: none"> This package includes all benefits from the “Metal Prices” and “Metal Product Prices” packages. 	<ul style="list-style-type: none"> Integration of prices into your own website API interface with real-time pricing Real-time prices within your company’s own intranet