Press Release

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For immediate release

Crystallized osmium becomes even more spectacular!

MUNICH, Germany - 7th of January, 2019 – With the new achievable grain sizes, osmium surfaces have an even greater lustre. Every single crystal can be recognized with the naked eye when using the new crystallization technique.

Osmium fans call it the „sparkle“

The very first fans of osmium who have seen the new surfaces call it the "Sparkle". Now it is possible for macroscopic objects to see the single crystals of a still flat surface individually and directly with the naked eye without a magnifying glass.

If surfaces with very small crystals reflect the light, we recognize this as a metallic shine, as for example with an aluminum foil. However, when the grain size of the crystals increases, we see an effect that is popularly known as glittering. A single crystal with its precise surface reflects the sunlight directly into the eye of the observer. This point of particular brightness outshines the diffuse shine of the metal surface and is perceived as a small flash.

We also know this effect from a diamond, which has larger planes that reflect the light due to its cut. With the new osmium surfaces, the crystal boundaries are now approached to the visibility boundary for individual "sparkles". Now one can consciously perceive each individual reflex when moving osmium in sunlight.

The beauty of such a surface is indescribable. It is impossible to capture it photographically, as the lens can only "see" a single flash with its orientation. It is necessary to hold an osmium jewel or a whole disc in your hand and move it through the sunlight. Only then does the new Sparkle unfold in the eye of the beholder.

Crystallization periods and availability

The crystallization time of the new 2D objects triples and the layer thickness doubles to carry the new larger crystals. The amount of osmium required is therefore usually about twice the amount of raw osmium used.

The new surfaces must be ordered separately for jewellery. Since the grain size changes upwards, it is also necessary to make inlays in jewellery larger in general. The previous and usual osmium surfaces were mainly intended for cutting osmium diamonds and small objects up to one cm in size.

Quote, Ingo Wolf (Director Osmium-Institute Germany): *"We see the new technology both smiling and crying. In fact, the new surfaces are spectacular and that is of course a great and desired effect. In addition, certification will become much easier. However, there are also two downsides. The new objects cost at least twice as much as the already quite high-priced Osmium products and semi-finished products. In addition, each piece must be manufactured individually. This means that delivery times increase not only due to the longer crystallization time but also due to the ordering process. We anticipate up to four months until delivery to the end customer."*

The hype is just starting

The new surfaces are currently still publicised to manufacturers and customers. Experts on the precious metals market are assuming that investors will once again take advantage of the timeframe in which they can still purchase osmium semi-finished products at good prices. An osmium disk with the new crystal structure is presumably located in a price region of 50,000 euros.

About the Osmium-Institutes:

Tasks:
Osmium Institutes have the international task of introducing osmium into regional markets. They provide native-speaker support in the marketing of osmium as well as training for investment advisors, processors and organizations working with osmium.
Osmium is promoted as a jewelry and investment metal by osmium institutes and receives considerable support. This serves the purpose of providing information on high-temperature processing into jewellery and at the same time helping investors to check osmium for authenticity.
The current Swiss prices are published after each fixing via RSS feeds of the Osmium institutes in several currencies.

Purchase of osmium:
To purchase osmium, please contact retailers, financial institutions and wholesalers as well as jewellers who have received approval from osmium institutes for trade and distribution. These organisations have an obligation to have a profound knowledge of osmium.
Some of them are listed on the websites of the regional Osmium Institutes.

Process of osmium certification:
After being crystallized in Switzerland, all pieces of osmium are passed through the German Osmium Institute. After chemical analysis and scan, the crystal structures are entered as "fingerprints" of the osmium crystals in the international osmium database and the internationally valid number and letter code is assigned (hexadecimal code).

Manifestations:
Unlike osmium sponge, crystallized osmium is non-toxic and completely harmless. Its appearance differs in the crystal lattice structure and thus changes the chemical properties of osmium. The metal belongs to the group of platinum metals and, like any precious metal, has the properties of special resistance to reactors.

2D-geometries:
Osmium is supplied in flat structures with a layer thickness of approximately one mm. Almost any shape can be cut by wire erosion. The rectangular shape is common for bars, which can be imported duty-free in many countries and countries as an investment instrument.
Safety instructions of the Osmium Institutes apply for the cut. During processing, it is recommended that the regional Osmium Institute approves the desired cutting forms. Certified cutting companies can also be commissioned directly by the institutes. For these cuts, if ordered over an Osmium Institute, full insurance applies in the case of a false cut of the ordered form.

3D-geometries:
Osmium can be crystallized in structures up to 2cm in size on carbon cores. The core remains in the structure. It cannot be removed and in addition serves to the stability of the 3D surface. Only topologically monovalent forms are possible which do not have through holes. The shapes must merge smoothly. Sharp edges and corners are not possible.

Forms of trade for crystallized Osmium:
The most common trading forms are the osmium disc and osmium medium edged bars. They are called osmium semi-finished products and are duty-free in many countries. These bars are supplemented by osmium diamonds and osmium stars.
Special shapes are simple geometries, silhouettes and letters. 3D objects are only available in extremely small quantities and are rarely and usually produced on request.

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For journalists, the www.osmium-dlc.com is available as a download center for free Osmium-related material. For direct inquiries or defined questions, please send an email to scarlett.clauss@osmium-institute.com

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More information about Osmium may be found here:

1. Osmium.info
Basic information for when first getting in touch with Osmium.
Covers all important information to pass the examination.

2. Osmium-training.com
A short explanation of the virtual academy and therefore the online training.
More information about courses and further training.

3. Osmium-institute.com
Covers the tasks of the Osmium-Institute and its employees.
Here, all international institutes are listed by their region.

4. Osmium-onboarding.com
Explains cooperation with the Osmium-Institutes.
A platform where new partners can register. Choose your code of reference here.

5. Osmium-sales.com
Website covering the sales partner's settlement and basic information.
Explanation of the marketing plan / earnings. Password: bigbang

7. Osmium-academy.com
Multi-language online training for jewellers and sale partners.
Here you can take the online examination anytime you want.

8. Buy-osmium.com
Online shop to buy Osmium and Osmium-Jewellery. Access for sales partners.
Branded shops for each sales partner.

9. Osmium-TV.com
This channel covers topics about Osmium, introduces new jewellery and new partners.
All new information is broadcasted in high definition and 4k resolution.

10. Osmium-dlc.com
Platform for pictures, texts, short films, brochures, posters, interviews.
The latest press information and posters can be downloaded here.

11. Osmium-Jewelry.com
This website lists all jewellers trading with Osmium worldwide.
Information how to process Osmium and work with the material including a safety guide.

12. Osmium-Preis.com
This website covers the current price of Osmium and the related charts.
Essential is the 1gr (0,035 oz) price to determine the material price.

List of institutes:

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