



Press Release

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For immediate release

Controversy among experts regarding Osmium Pearls

Munich, 14th of January, 2019 - Valuation of osmium pearls must be standardized as soon as possible. Customers want to be informed about the quality of Osmium pearls before placing an order. International Osmium-Institutes work towards common standard.

The grade of crystallization is decisive

Osmium Pearls are brand new, only recently on the market and can currently only be pre-ordered. Since no quantities are yet available, the standardization of the quality criteria cannot be determined statistically.

As in the crystallization of the rarest precious metal in general, the grain size of the surface, i.e. the size of the visible crystals, depends on the level of crystallization. This size again depends on the crystallization time and the crystallization substrate.

Both low and high levels of crystallization play an important role in the two-dimensional crystal world of osmium. Small crystals create shimmering surfaces and large crystals allow special areas of the crystal surface to light up when moved by the sun's rays.

In addition, larger crystals always result in a higher layer thickness and thus more material and therefore more value per piece of jewellery or bar.

Osmium-Pearls are different

Since it became possible at the beginning of 2018 to crystallize osmium three-dimensionally for the first time (under extreme effort and high rejection rates), work has also begun to be carried out on a sphere. Three-dimensional structures result in very different crystallization heights on the osmium pearl surface due to the process.

For this reason every Osmium-Pearl looks different per se. Here the metallic Osmium-Pearls behave no differently than their twins found in the ocean. In the jewellery and investment world, however, the reproducibility of a result plays an important role, especially when large quantities of pearls or bars are purchased as an investment.

The Osmium-Institutes worldwide are now working towards a common standard for assessment that creates comparability. The uniformity of crystal formation, layer thicknesses at different points, hole quality and some other crucial factors are decisive.

The value of the Osmium-Pearl is only partly based on the already extremely valuable crystalline Osmium, but mainly on the crystallization effort. The complex equipment and its maintenance as well as the return of material to the production process with particularly high rejection rates are main reasons.

Ingo Wolf says: *"Usually you could simply set a standard for second level material and also sell goods that are not perfectly crystallized. But exactly that's not possible with osmium, because osmium stands for absolute perfection and beauty. For this reason we have to accept high reject rates. All institute directors are aware that demand in the market cannot be fully met in this way. Our current task is to set a standard beyond which an osmium pearl is considered perfect, and also to work on how different levels of crystallization can be used in the jewelry market for osmium pearls."*

The standard will be operational in 2019

It is currently anticipated that a standard can be expected in the first quarter of 2019. Up to this point, Osmium-Pearls are only delivered with a crystallization rate that is currently considered perfect. Thicker and thinner layers and crystallization rates are developed for defined markets and then assigned to Osmium-Pearl product types. In other words, you can already buy Osmium-Pearls now or order them in advance without hesitation, because in any case only perfect first choice goods will come onto the market. However, one must also be aware that the delivery times could easily be half a year. But since osmium is called the generation metal anyway, this is not an eternity.

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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