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For a map go to <http://www.kekgems.com/address.shtml>

10240 Bangkok, 19 April 2005

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Czochralski Cultured Alexandrite

This is an **introduction** about the very Best **cultured Alexandrite**

And is intended to be for everyone who is interested

In this Topic.

Pages are:

- **Product Information** (page # 1 and # 2)
- **Pictures of the Product** (page # 2)
- **Price list for rough stones** (page # 3)
- **Price list for cut stones** (page # 4)
- **Scientific sheet** (page # 5)

Product Information

Since 1998, our company is The General Agent of the major manufacturer of these finest created gems from Russia.

There are 2 major manufacturers in Russia, whereas we do have a contract as world distributor with 1 of them.

So **K.E.K. GEMS INTERNATIONAL CO., LTD.** plays a *major role* in this business and is one of two first hand suppliers!

“*Czochralski*” *Alexandrite*”, also called (which might interest you):

PULLED, is just a short English description of the process and is mostly used because people just don't know how to write or pronounce the real word for that inventor and process.

CZOCHRALSKI, He did work in Russia and is considered a Russian scientist. But in fact he was a Polish. Originally this is the polish spelling of his name. (In Poland they use Latin letters)

CZOCHRALSKY, is the right pronunciation of this name in Russian and it is just written in Latin letters. Phonetic translation from Cyrillic to Latin.

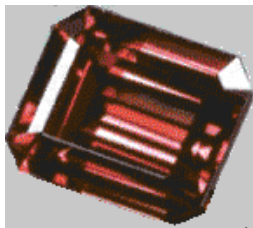
CHOKHRALSKI, is another definition, to get the pronunciation right for English speaking people. Another phonetic translation.

These gems are manufactured in the most advanced **high-tech** way that may copy the process of Mother Nature. Only time has been accelerated. All properties of the natural stone could be **matched**, whether it is the crystal structure, the hardness, the chemical compounds, the refractive index etc. This **cultured** alexandrite is closest to its natural counterpart as can be. In all terms it is an **Alexandrite**. There is no way, to make a product better than this by actually known technology.

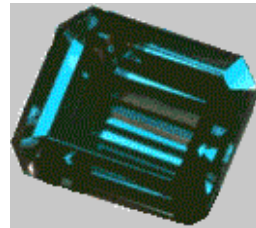
For reference, please compare the **scientific data**, which are shown to you at the end of this file, comparing:

- *Natural Alexandrite from different locations*
 - *Chokhralski Alexandrite*
- This will give you the best overview, based on facts.

Pictures of the Product:



<<< **Amazing color changes** >>>



These images have also been uploaded to our server at the Internet in a higher resolution, from where you may view or download them. Here is the URL where you may find the links to the pictures:

<http://www.KEKGEMS.COM/alex.shtml>

PRICE LIST for rough Alexandrite

AVAILABLE QUALITIES	USD/CT	QUALITY DESCRIPTION
“X”	1.40	superior color, size +30 cts./pce., perfect color change
“A”	1.20	slightly lighter color, good color changes or it can be an Extra quality in smaller sizes

All prices are for rough stones in USD/ct., delivery ex our stock in Bangkok.

PRICES MAY CHANGE WITHOUT PRIOR NOTICE.

Updates of stock lots, prices and business situations can be found and pulled from our Multi Responder System from our Web Site at:

<http://www.KEKGEMS.COM/info.shtml>

You also may subscribe to our Alexandrite Newsletter by sending us an e-mail to:

KEKgems@ChiangMai-Infoline.com with the *subject* “alexandrite news-letter”.

Thank you - We appreciate your business and your interest in our products!

K.E.K. GEMS INTERNATIONAL CO., LTD.

Klaus E. Kappler, managing director

Gem Shows where we participate as exhibitors:

Bangkok Gem Show held end of February/beginning of March

Hong Kong Gem Show held in September each year.

PRICE LIST for cut Alexandrite

Facetted stones

Our stones are cut to perfection at its best. They're all clean.

They all are calibrated with tolerance of +/- 1/10th of a mm.

All sizes and shapes from 2mm up are available.

The basic price is 12.50 US\$ per carat valid for most shapes and sizes.

For stones of 3mm and below a surcharge of 0.50 USD per pce. is the general rule.

Some special shapes with low yield and weight per piece will also have a surcharge.

More information can be obtained from the page: <http://www.kekgems.com/alex.shtml>.

Delivery time in general is 1-3 weeks depending on the ordered quantities, shapes and sizes. Most Standard shapes and sizes are available ex our stock.

Thank you for your interest and remaining with best regards,

K.E.K. GEMS INTERNATIONAL CO., LTD.

Klaus E. Kappler, managing director

Looking for more cultured/created Gems?

We got available with us:

KOSSACK[®] Emeralds

Red Beryl (Morganite) and Aqua Beryl
Amethyst, Citrine and other color Quartz

Flux created Ruby

Ask us for details.

Scientific Data of Czochralsky Alexandrite Compared with natural Alexandrite

Data	Czochralsky (pulled)	Natural Ural	Natural Tanzania	Natural. Brazil	Natural Helsinki.	Natural Enisey	Natural. Golder	Natural Malyshevo	Natural. Bershevo
BeO		18.02% wt	19.70% wt.	16.69% wt.	17.81% wt.	19.35% wt.	19.15% wt.	19.05% wt.	18.80% wt.
Al₂O₃		78.92% wt.	77.79% wt.	78.55% wt.	79.77% wt.	78.61% wt.	76.34% wt.	76.00% wt.	74.86% wt.
Fe₂O₃		3.12% wt.	2.11% wt.	0.78% wt.	6.07% wt.	0.61% wt.		0.57% wt.	3.91% wt.
SiO₂						0.47% wt.		1.90% wt.	1.12% wt.
Basic Dopants. (oxide of)	Cr, Va,	Cr, Va, Fe	Cr, Va, Fe	Cr, Va, Fe	Cr, Va, Fe	Cr, Va, Fe	Cr, Va, Fe	Cr, Va, Fe	Cr, Va, Fe
Growth Defects	Strips of dopants concentration with 1-5 mm steps; Iridium inclusions from 1mkm up to 30-40 mkm; Gas inclusions (bubbles) from 0.1-1.0 mm								
Refraction Index	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Luminescence	Great stronger (40-70%) with respect to natural due to absence of Fe ions' extinguish								

This file will be updated according to new Data we come to know about.

If you can help, send your approved data to

KEKgems@ChiangMai-Infoline.com