

Russian Quartz

456870, 3, Kaslinskoe highway, Kyshtym, Chelyabinsk region, Russia
www.russianquartz.com
info@russianquartz.com

RQ-1K High Purity Quartz

RQ-1K is manufactured from unique Quartz deposit in Kyshtym, Russia.

Kyshtym quartz has the highest chemical purity and good transparency, and for more than 60 years been successfully used as raw material for quartz tubes of various diameter, ingots and crucibles for photovoltaic and semi-conductor industries.

RQ-1K is extra-high pure grade developed for semiconductor crucibles and quartz glass for semiconductor industry, the product also can be applied as inner layer of PV crucibles.

Chemical content, ppm

	Al	B	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ni	Ti
Specification	4	0.1	0.3	0.01	0.01	0.1	0.1	0.4	0.1	0.01	0.1	0.01	3

Particle size distribution

Mesh size	Micron (μm)	Limit (wt %)
>80	> 180	≤ 2
200 - 80	75-180	≥ 93
<200	< 75	≤ 5

* The quality assurance period for the product is 12 months from the date of delivery to the consumer.
The product must be stored in undamaged Manufacturer's package in a clean, well-ventilated premise, protected from the ultraviolet radiation, with a relative air humidity of less than 75%.



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RQ-2Ki High Purity Quartz

RQ-2Ki is manufactured from unique Quartz deposit in Kyshtym, Russia.

Kyshtym quartz has the highest chemical purity and good transparency, and for more than 60 years been successfully used as raw material for quartz tubes of various diameter, ingots and crucibles for photovoltaic and semi-conductor industries.

RQ-2Ki is particularly suited for use in the transparent layer of crucibles for photovoltaic and semiconductor industries, production of large diameter quartz tubes, quartz ingots.

Chemical content, ppm

	Al	B	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ni	Ti
Specification	5	0.1	0.3	0.01	0.01	0.2	0.3	0.4	0.2	0.01	0.5	0.01	3

Particle size distribution

Mesh size	Micron (μm)	Limit (wt %)
>80	> 180	≤2
200 - 80	75-180	≥93
<200	< 75	≤5

* The quality assurance period for the product is 12 months from the date of delivery to the consumer.
The product must be stored in undamaged Manufacturer's package in a clean, well-ventilated premise, protected from the ultraviolet radiation, with a relative air humidity of less than 75%.



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RQ-2K High Purity Quartz

RQ-2K is manufactured from unique Quartz deposit in Kyshtym, Russia.

Kyshtym quartz has the highest chemical purity and good transparency, and for more than 60 years been successfully used as raw material for quartz tubes of various diameter, ingots and crucibles for photovoltaic and semi-conductor industries.

RQ-2K is suited for use in the middle layer of crucibles for PV industry and middle/outer layer for semiconductor industry, and also for production of quartz tubes and ingots.

There are also special subcategories of RQ-2K grade designed especially for the production of macro and micro silicon carbide granules and powders, as well as for some other applications.

Chemical content, ppm

	Al	B	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ni	Ti
Specification	5	0.1	0.5	0.1	0.1	0.4	0.3	0.4	0.2	0.01	0.5	0.01	3

Particle size distribution

Mesh size	Micron (µm)	Limit (wt %)
>50	> 300	≤1
200 - 50	75-300	≥98.5
<200	< 75	≤0.5

* The quality assurance period for the product is 12 months from the date of delivery to the consumer.
The product must be stored in undamaged Manufacturer's package in a clean, well-ventilated premise, protected from the ultraviolet radiation, with a relative air humidity of less than 75%.



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RQ-2Kff High Purity Quartz

RQ-2Kff is manufactured from unique Quartz deposit in Kyshtym, Russia.

Kyshtym quartz has the highest chemical purity and good transparency, and for more than 60 years been successfully used as raw material for quartz tubes of various diameter, ingots and crucibles for photovoltaic and semi-conductor industries.

RQ-2Kff is suited for the production of multi-component glass, quartz ingots, special optics, PV crucibles.

Chemical content, ppm

	Al	B	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ni	Ti
Specification	5	0.1	0.3	0.1	0.1	0.4	0.3	0.4	0.2	0.1	0.5	0.1	3

Particle size distribution

Mesh size	Micron (μm)	Limit (wt %)
>120	> 125	≤3
140 - 120	100-125	≤20
200-140	75-100	≥40
<200	< 75	≥20

* The quality assurance period for the product is 12 months from the date of delivery to the consumer.
The product must be stored in undamaged Manufacturer's package in a clean, well-ventilated premise, protected from the ultraviolet radiation, with a relative air humidity of less than 75%.



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RQ-3K High Purity Quartz

RQ-3K is manufactured from unique Quartz deposit in Kyshtym, Russia.

Kyshtym quartz has the highest chemical purity and good transparency, and for more than 60 years been successfully used as raw material for quartz tubes of various diameter, ingots and crucibles for photovoltaic and semi-conductor industries.

RQ-3K suited for production of special glass for headlights, bactericidal UV lamps, special lamps, halogen headlights, fluorescent lamps, lamps for projectors, quartz tubes.

Chemical content, ppm

	Al	Ca	Fe	K	Li	Mg	Na	Ti
Specification	8	1	0.9	1	0.4	0.5	1.8	3
Typical value	4.7	0.4	0.42	0.18	0.30	0.09	0.36	2.9

Particle size distribution

Mesh size	Micron (μm)	Limit (wt %)
>50	> 300	≤1
140 - 50	100-300	≥94
<140	< 100	≤5

* The quality assurance period for the product is 12 months from the date of delivery to the consumer.
The product must be stored in undamaged Manufacturer's package in a clean, well-ventilated premise, protected from the ultraviolet radiation, with a relative air humidity of less than 75%.

