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 50 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 suitable for quartz glass used in semi-conductor industry, and also as inner layer of crucibles for photovoltaic and semi-conductor industries.

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
Typical value	3.6	0.07	0.10	<0.01	<0.01	0.05	0.03	0.29	0.07	<0.01	0.05	<0.01	2.9

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%.**

Management system in accordance with ISO 9001:2015.Certificate registration number: 21110060 QM 15

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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 50 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 particularly suited for use in the non-transparent layer of crucibles for photovoltaic and semi-conductor applications, and also for quartz tubes and ingots.

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
Typical value	3.9	0.07	0.12	0.01	0.01	0.20	0.13	0.30	0.05	0.01	0.30	0.01	2.9

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 50 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 particularly suited for quartz ingots and special optics.

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
Typical value	3.9	0.07	0.12	0.01	0.01	0.10	0.12	0.30	0.10	0.01	0.30	0.01	2.7

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%.**

Management system in accordance with ISO 9001:2015.Certificate registration number: 21110060 QM 15

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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 50 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 semi-conductor applications, and also for quartz tubes and 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
Typical value	3.9	0.07	0.10	0.01	0.01	0.09	0.09	0.29	0.09	<0.01	0.29	0.01	2.8

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%.**

Management system in accordance with ISO 9001:2015.Certificate registration number: 21110060 QM 15

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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 50 years been successfully used as raw material for quartz tubes of various diameter, ingots and crucibles for photovoltaic and semi-conductor industries.

RQ-3K is particularly suited as a low-cost raw material for the outer layer of crucibles for photovoltaic industry and for small and medium diameter 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	5.0	0.47	0.49	0.20	0.30	0.09	0.40	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%.**

Management system in accordance with ISO 9001:2015.Certificate registration number: 21110060 QM 15