



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



Quality Management System in accordance with ISO 9001:2015. Certificate No: 44 100 137464.



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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 inner 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	0.1	0.5	0.1	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	$\leq 1,5$
200 - 50	75-300	≥ 97
<200	< 75	$\leq 1,5$



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RQ-2Kf High Purity Quartz

RQ-2Kf 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-2Kf is particularly suited for large diameter 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	0.1	0.5	0.1	3
Typical value	4.2	0.07	0.09	0.01	0.01	0.11	0.12	0.30	0.08	<0.01	0.30	0.01	2.8

Particle size distribution

Mesh size	Micron (μm)	Limit (wt %)
>100	> 165	≤ 2
200 - 100	75-165	≥ 68
<200	< 75	≤ 30



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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	0.5	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



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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 as inner layer of crucibles for photovoltaic and semi-conductor industries, and also for large diameter quartz tubes.

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	0.1	3
Typical value	3.9	0.07	0.10	0.01	0.01	0.09	0.09	0.30	0.09	<0.01	0.29	0.01	2.8

Particle size distribution

Mesh size	Micron (μm)	Limit (wt %)
>100	> 150	≤ 2
200 - 100	75-150	≥ 78
<200	< 75	≤ 20



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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	0.35	0.40	0.20	0.29	0.10	0.45	2.7

Particle size distribution

Mesh size	Micron (μm)	Limit (wt %)
>50	> 300	≤ 2
200 - 50	75-300	≥ 93
<200	< 75	≤ 5



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RQ-6K Quartz Concentrate

RQ-6K 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-6K – semi-enriched product for further processing of HPQ.

Impurity elements, not more than, %:

	Al	Ca	Fe	K	Na
Specification	0.4	0.2	0.03	0.2	0.3

Particle size distribution

Mesh size	Micron (μm)	Limit (wt %)
>50	> 300	≤ 2
200 - 50	75-300	≥ 93
<200	< 75	≤ 5



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