

# 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

### Particle size distribution

Mesh size	Micron ( $\mu\text{m}$ )	Limit (wt %)
>80	> 180	$\leq 2$
200 - 80	75-180	$\geq 93$
<200	< 75	$\leq 5$

\* 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 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

### Particle size distribution

Mesh size	Micron ( $\mu\text{m}$ )	Limit (wt %)
>50	> 300	$\leq 1$
200 - 50	75-300	$\geq 98.5$
<200	< 75	$\leq 0.5$

\* 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

### Particle size distribution

Mesh size	Micron ( $\mu\text{m}$ )	Limit (wt %)
>120	> 125	$\leq 3$
140 - 120	100-125	$\leq 20$
200-140	75-100	$\geq 40$
<200	< 75	$\geq 20$

\* 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-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

### Particle size distribution

Mesh size	Micron ( $\mu\text{m}$ )	Limit (wt %)
>80	> 180	$\leq 2$
200 - 80	75-180	$\geq 93$
<200	< 75	$\leq 5$

\* 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-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

### Particle size distribution

Mesh size	Micron ( $\mu\text{m}$ )	Limit (wt %)
>50	> 300	$\leq 1$
140 - 50	100-300	$\geq 94$
<140	< 100	$\leq 5$

\* 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%.

