

100 years OF EXPERIENCE

Heraeus

Chemical Purity

ppm	Li	Na	K	Mg	Ca	Fe	Cu
Electrical	0.5	0.1	0.2	<0.03	0.5	0.1	<0.01
Flame	0.04	0.2	0.08	<0.01	0.7	0.1	<0.01
Synthetic	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.008

Chemical Inertness



Acids

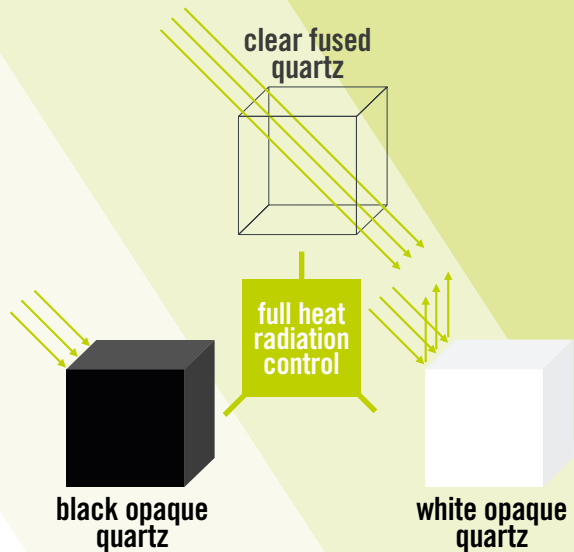
H₂O
H₂SO₄
HNO₃
HCl
H₃PO₄
Organic



Gases

H₂
O₂
N₂
HCl
NH₃
Cl₂

Complete Thermal Management



HCA-SemiIQ_7.0/E/07.2019

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HAVE A CLEAR VIEW ON YOUR WORLD



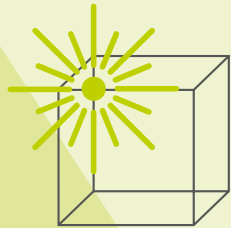
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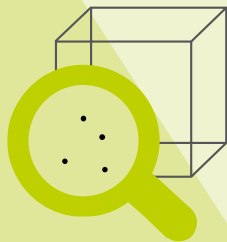
Heraeus Clear Fused Quartz

a century of material experience

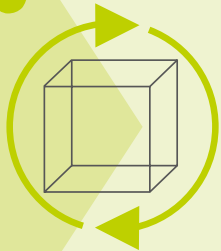
Unique MATERIAL PROPERTIES



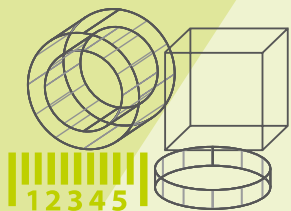
In-house material purification



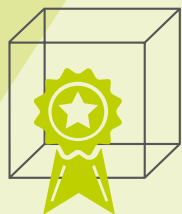
Lowest inclusions and bubbles



The full service company



Full portfolio in shape and size



100 years of experience

With the increasing demands of today's applications, material quality and stability are critical factors to maintaining control of your manufacturing process. In order to have full control and visibility on material quality we utilize our fully in-house raw material purification. This is further supported by our accredited chemical laboratory to ensure stability and reliability of Heraeus quartz materials.

If your application requires extremely low level of inclusions and bubbles Heraeus CFQ products can support your needs. Our materials offer the best in class, lowest levels of inclusions and bubbles, meeting even the requirements of the most challenging applications.

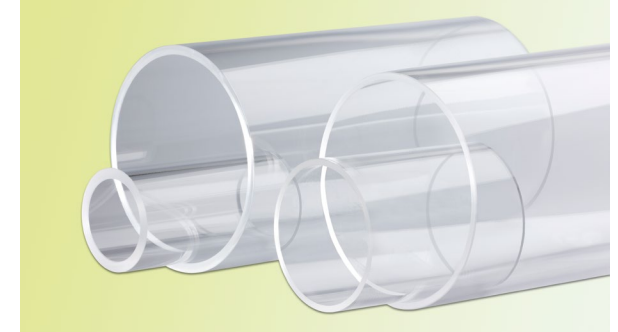
Only Heraeus Conamic can offer a full spectrum portfolio of fused quartz and fused silica grades to support the right material for all applications. We provide all fusion methods and products, ranging from standard fused quartz grades to high-end fused silica synthetics. This allows Heraeus to offer all grades with the same quality and material excellence, supported by our outstanding material competence. We can recommend the perfect matching materials for your requirements, and supply it.

Heraeus CFQ products can be provided in multiple configurations to optimally support your component design, and reduce wasted material. Typical formats for our materials are rods, tubes, ingots, cylinders, plates and discs. Additionally many of our products are also available in square and rectangular format. We have the matching material solution to support the grade, shape and size your design needs.

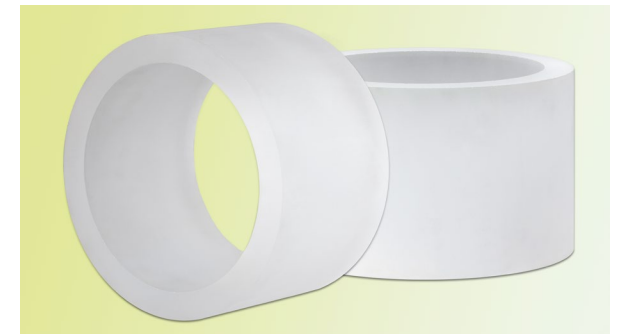
For over a century Heraeus has been a leader in the field of fused quartz materials. The experience collected over 100 years makes Heraeus the best choice to help you master your quartz and silica material challenges. From customized doping of quartz materials, to the efficient mass production of high quality synthetic fused silicas, Heraeus has the knowledge, experience and products to solve your design challenges.

Full PORTFOLIO IN SHAPES AND SIZES

Electrical Fused Quartz



Flame Fused Quartz



Clear Fused Quartz – Physical Properties

CTE (0...900°C)	0.48 × 10 ⁻⁶
Max. working temp.	
Electrical fused	1160°C
Flame fused	1110°C
Synthetic	950°C
Max. bubble & inclusion count (flame fused)	
0.3mm - 0.5mm	7
0.5mm – 1mm	0
> 1mm	0
Specific heat [J/(gK)], RT	0.772
Heat conductivity [W/(mK)], RT	1.38