

Heraeus



PUSH YOUR LIMITS

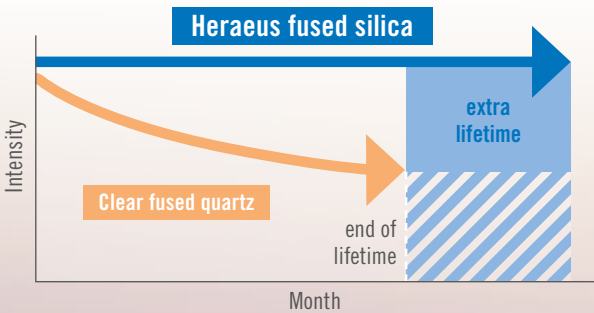
with Heraeus Synthetic Fused Silica
for UV Water Treatment

Your Competitive Advantage with Synthetic Fused Silica from Heraeus!

UV technology is the leading edge solution for cleaning and disinfection applications which is superior to traditional treatments both economically and environmentally.

Today natural quartz materials are widely used in UV applications adequately for simple systems. However this material has challenges for deep UV applications due to its lack of purity and consistency.

Heraeus synthetic quartz is made from extremely high purity materials which yields many benefits when designing your system to be cost effective, longer lifetime, yield higher efficiencies, and provide superior UV performance.



Higher transmission
(+40% @ 185 nm)

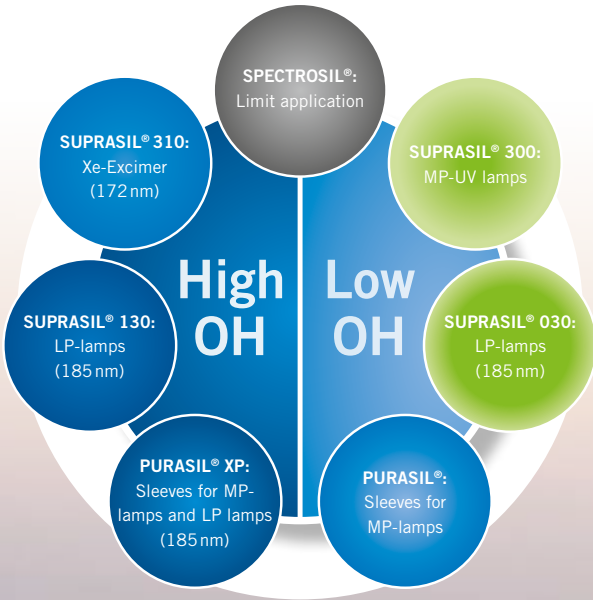
Long lifetime
(> 2 x)

As a result of this, the TCO (Total Cost of Ownership) is significantly reduced when compared to systems using natural quartz. Our technology for making the raw material and tubing yields superior visual and physical properties and tubes available from 3 mm to 350 mm diameter.

Tailor-made Solutions for your Requirements and Challenges!

Heraeus Synthetic Materials (Purasil[®], Spectrosil[®] and Suprasil[®]) have the highest available material purity (up to SiO₂ 99,99999%). This is greater than 100 times purer than the best natural material available on the market today (HSQ[®] 330S – SiO₂ 99,999%). This results in excellent transmission generally, but also at the vacuum UV for wavelength below 200 nm.

Products / Application



Impact of OH content on UV performance

→ OH stabilizes quartz in Deep UV

High purity:	Suprasil [®] 300
185 nm TOC Lamps:	Suprasil [®] 130
172 nm Xe-Excimer Lamps:	Suprasil [®] 310
High UV Stability:	Spectrosil [®]
Sleeve for UV Lamps:	Purasil [®] /Purasil [®] XP

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