

## Doped Synthetic Fused Silica

Purasil® V doping options tailored to your application or specific output requirement



# Purasil® V 230 / Purasil® HT

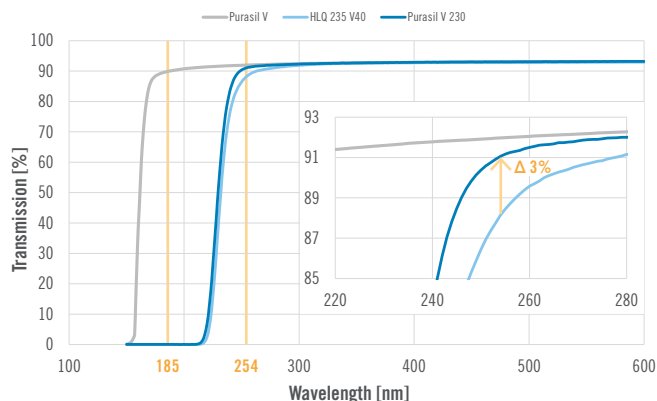
Commercial full synthetic – advanced tailored quartz tubing for high performance applications.

Ultraviolet light has long been established in many technical processes. For high performance UV solutions, full synthetic material is commonly used. There are certain scenarios where other factors should be considered:

## Blocking VUV while retaining high transmission

The balance between high transmission in the UVC range and blocking VUV (particularly ozone generation) is an important factor. Our new **Ti-doped synthetic Purasil® V 230** combines advanced performance @ 254 nm and a cut-off above 185 nm. We are able to achieve min. 3 % higher UV transmission and this will only increase over the service life. Air and water UV disinfection applications require optimized UVC output at both the quartz lamp body and the outer quartz sleeve.

### Typical transmission values for 1 mm wall thickness



## Purasil® V 230 benefits

- Outstanding transmission @ 254 nm
- Highest purity
- Longest lifetime
- High volume manufacturing process (economies of scale)
- Precise and tight tolerances

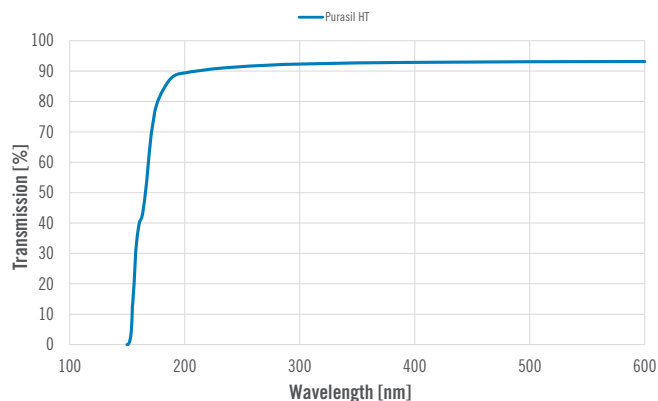
Process	Transmission esp. @254nm	Total Cost of Ownership
Electric Fusion of Natural Grain	★☆☆	\$\$\$
HLQ® 235 V40	★★★	\$\$
<b>Purasil® V 230</b>	<b>★★★★</b>	<b>\$</b>

## High transmission meets stability at high temperatures

How can you achieve better thermal resistance while using synthetic quartz?

Our new **Al-doped Purasil® HT** synthetic provides the highest purity with excellent function at higher temperatures where standard synthetic fused silica tubes may not be suitable. Recommended for all advanced UV lamps, but also for metal halide lamps, medium pressure lamps, and other high heat lamps that require similar wavelength output.

### Typical transmission values for 1 mm wall thickness



## Purasil® HT benefits

- Increased viscosity (approx. 11.7 dPas @ 1300 °C)
- Highest purity
- Longest lifetime
- High volume manufacturing process (economies of scale)
- Precise and tight tolerances

Process	Maximum Working Temperature
Electric Fusion of Synthetic Grain	★☆☆
<b>Purasil® HT</b>	<b>★★★★</b>

## CONTACT

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The data given here is correct as of September 2022 and is subject to change.

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