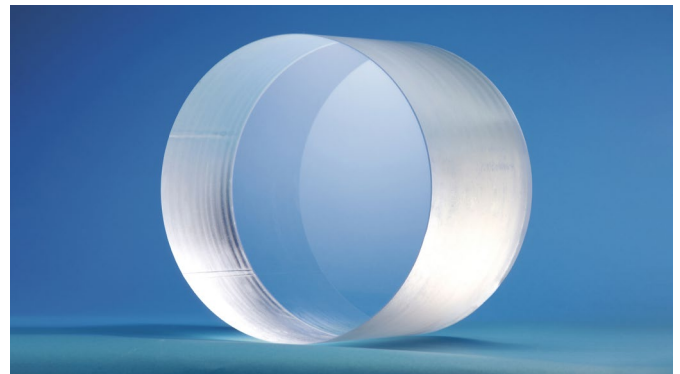


HSQ® 300/330 MF

Characteristics

- Very low bubble and inclusion content
- High purity
- High transmission
- Outstanding high temperature stability
- Superior thermal shock resistance
- High-end material for demanding requirements



HSQ® 300/330 MF is a quartz glass material manufactured by electric fusion. It combines excellent physical properties with excellent visual appearance and high purity. The low OH content makes it suitable for high-temperature applications.

HSQ® 330 (S) is a new selected grade that guarantees particularly low metal concentrations as required for super high purity semiconductor materials.

HSQ® MF material is the first choice for demanding high temperature semiconductor.

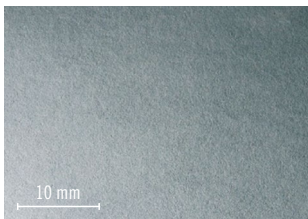
Chemical Properties (Typical Values)

Trace Element Concentration (ppm)

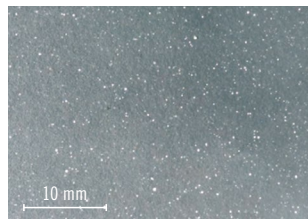
	Li	Na	K	Mg	Ca	Fe	Cu	Cr	Ni	Mn	Ti	Zr	Al	OH
HSQ® 300	0.5	0.2	0.3	< 0.03	0.5	0.1	0.01	< 0.01	< 0.01	< 0.03	1.1	1.0	15	< 30*
HSQ® 330	0.5	0.1	0.2	< 0.03	0.5	0.1	< 0.01	< 0.01	< 0.01	< 0.03	1.1	1.0	15	< 30*

*OH content can be reduced by additional annealing.

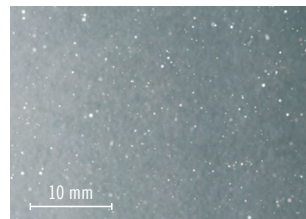
Typical Visual Appearance



HSQ 300 MF



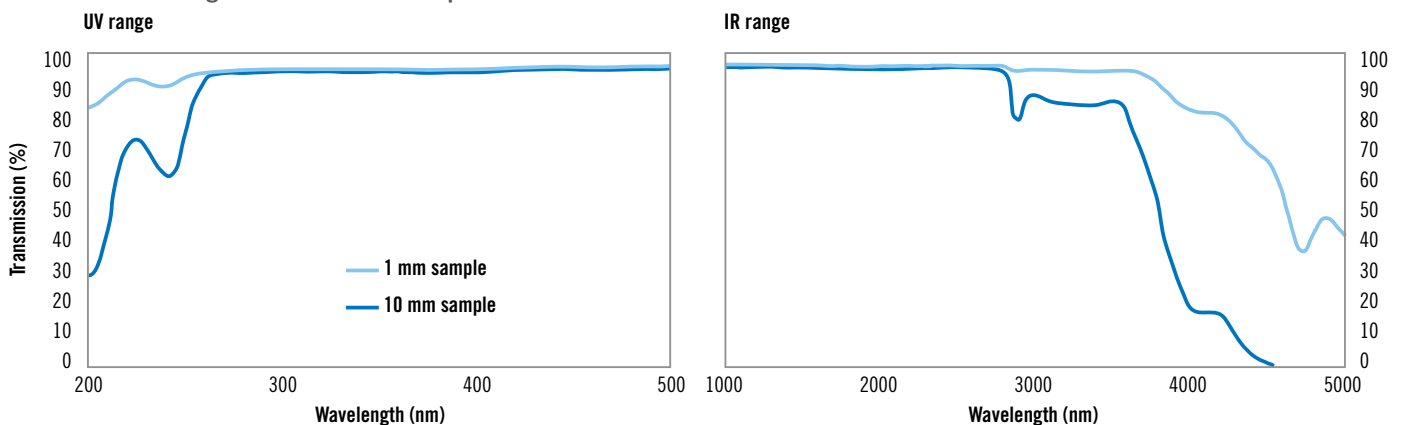
Single step electric arc-fused quartz



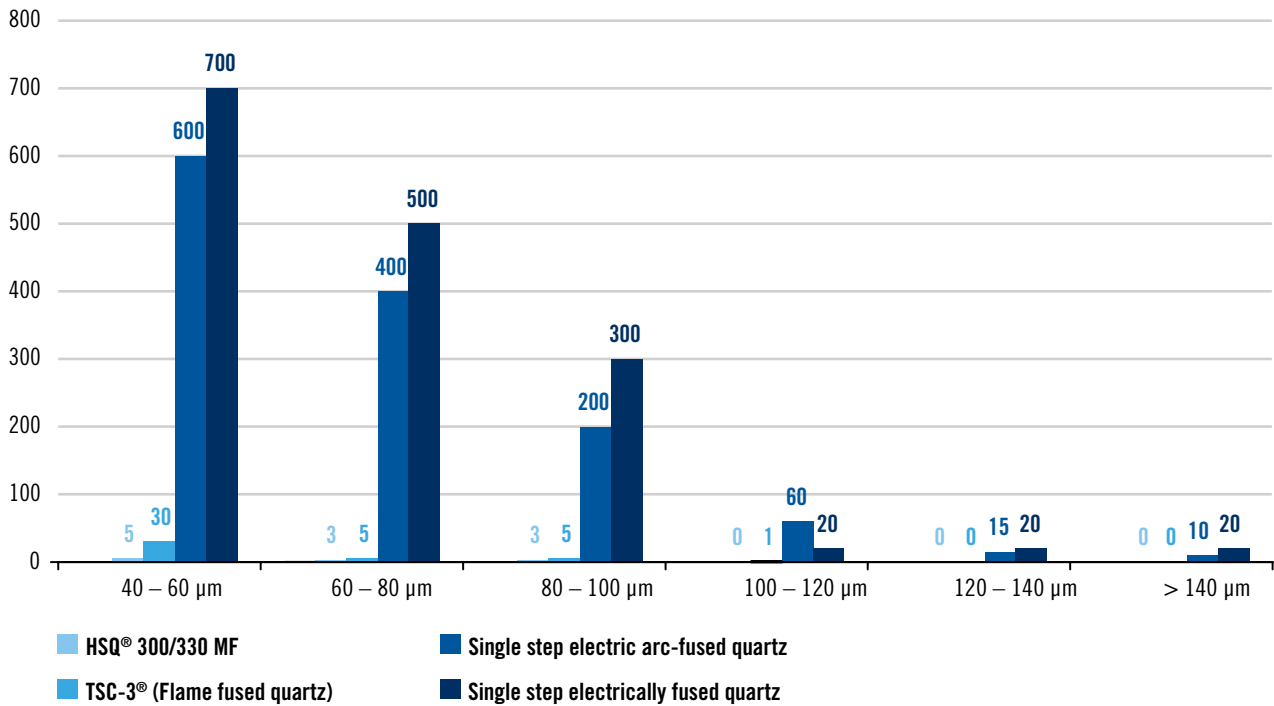
Single step electrically fused quartz

Optical Properties

Transmission through 1 mm / 10 mm sample



Fine Bubble and Inclusion Content (10 – 300 μm)



Germany
Heraeus Quarzglas GmbH & Co. KG
Heraeus Conamic
 Kleinostheim, Germany
 Phone: +49 6181 35-7444
 conamic.basematerials.eu@heraeus.com

USA
Heraeus Quartz North America, LLC.
Heraeus Conamic
 Chandler, Arizona, USA
 Phone: +1 678 714-4306
 conamic.basematerials.us@heraeus.com

UK
Heraeus Conamic UK Ltd.
 Wallsend, UK
 Phone: +44 191 2598-411
 conamic.basematerials.eu@heraeus.com

Korea
Heraeus Korea Corporation
Heraeus Conamic Anseong Factory
 Miyang-myeon, Gyeonggi-do, Korea
 Phone: +82 31 671-7601
 conamic.basematerials.kr@heraeus.com

China
Heraeus ShinEtsu Quartz (China) Inc.
 Pudong, Shanghai, China
 Phone: +86 21 6867 2266-809
 conamic.basematerials.cn@heraeus.com

Japan
Shin-Etsu Quartz Products Co., Ltd.
 Shinagawa, Tokyo, Japan
 Phone: +81 3 6737-0221
 division3@sqp.co.jp

Taiwan
Heraeus Materials Technology Taiwan Ltd.
 Taipei, Taiwan
 Phone: +886 2 2627-1111
 conamic.basematerials.tw@heraeus.com

www.heraeus-conamic.com