

## TSC-S

### Characteristics

- Ultra high purity synthetic quartz material
- Lowest in class bubbles
- Free of mineral inclusions

### Applications

- Wet tank applications for next generation semiconductors

TSC-S is part of Heraeus' new synthetic material family: Neonyx. With Neonyx we address the increasing challenges and material requirements in the high-end semiconductor environment.

Designed for the next generation of semiconductor wet tank technologies, TSC-S is fused from fully synthetic raw material to provide material with the highest purity and lowest level of contaminant risk. TSC-S is available in rectangular ingots that can be efficiently converted to plates with high material yield.

### Bubbles and inclusions

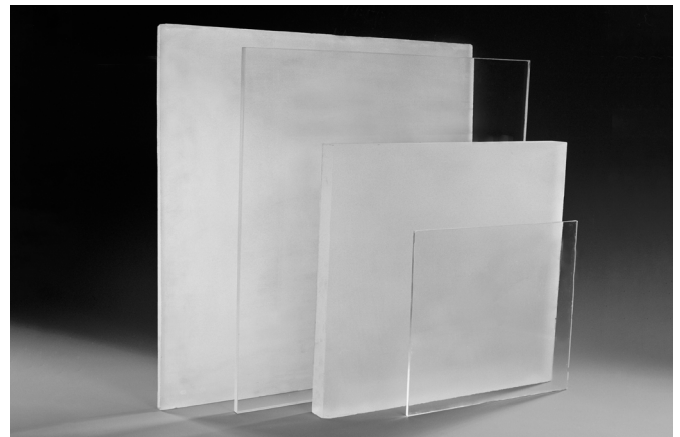
Heraeus' TSC-S has been specially developed to ensure highest consistency, lowest in class bubble content and zero mineral inclusions.

### Chemical Purity

Typical trace elements and OH content in quartz glass (in ppm)

Elements	Li	Na	K	Mg	Ca	Fe	Cu	Al	OH
TSC-4	0.04	0.2	0.08	< 0.01	0.7	0.1	< 0.01	8	170
TSC-S	< 0.01	0.03	< 0.02	< 0.01	< 0.03	0.01	< 0.008	< 0.04	150

**Note:** TSC-S is a flame-fused, synthetic quartz glass and due consideration should be given when hot processing or annealing this material compared with natural quartz. Contact your local Heraeus representative for more details.



### Available Dimensions

- Rectangular Ingots
- 600 mm x 500 mm x 150 mm MIN
- Other sizes available on request

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: +1 480 233-1907  
 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.**  
 Shinjuku, Tokyo, Japan  
 Phone: +81 3 3348-1913  
 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](http://www.heraeus-conamic.com)