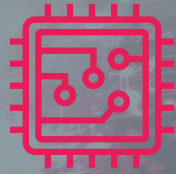


Synthetic Clear Fused Material

Highest Purity

Addressing today's material challenges.



Technology Enabler

Enabling next generation node sizes.

Consistency

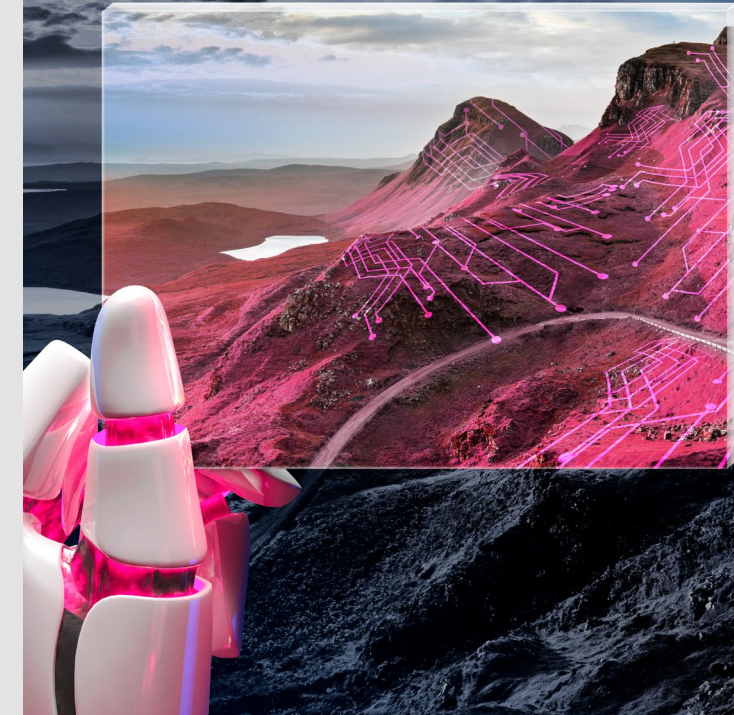
Providing consistency for the future.



Heraeus

Conamic

REDEFINE THE VIEW ON YOUR WORLD



HCA-Sem/06_32.0/E/12.2021

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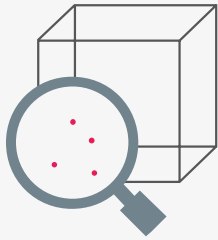
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Heraeus Neonyx TSC-T

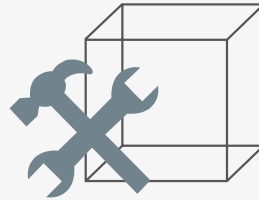
The Next Century of Material Performance

Unique Material Properties



Zero bubbles and inclusions

TSC-T has been specially developed to ensure lowest in class bubble content and zero mineral inclusions to address the increasing material requirements.

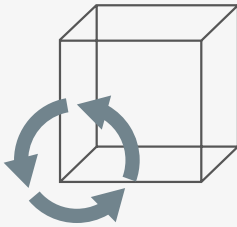


For single wafer applications

Focusing on the challenges of today and tomorrow for next generation plasma etching tools, Heraeus is providing the best in class solution for present and future leading-edge process developments.

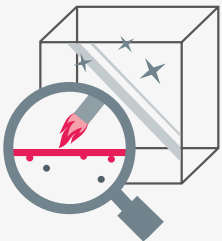
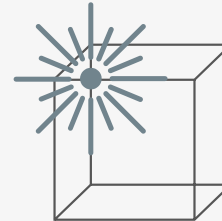
Consistency

By taking the step from a natural raw material to a synthetic raw material, we eliminate the largest source of inconsistencies. Neonyx TSC-T offers you the most stable and most consistent material in the market today.



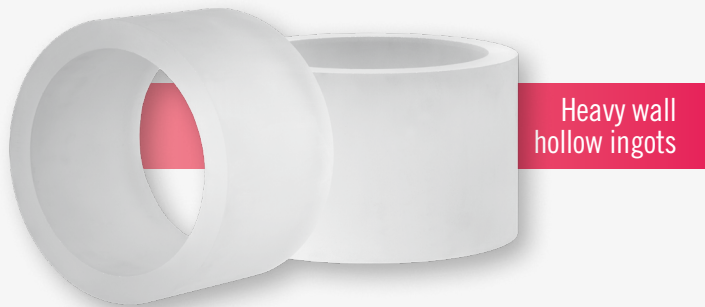
Synthetic purity

Neonyx TSC-T offers the lowest level of impurities available today. Zero Alkalines and zero Aluminum are only two key figures for the purity of Neonyx TSC-T.



Total Cost of Ownership

With the lowest in class bubble count and its zero mineral inclusion, Neonyx TSC-T can improve the product lifetime (time to particle), reducing the total cost of ownership of your process application.



Heavy wall hollow ingots

Key Technical Information

Chemical purity*

| ppm | 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-T | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 150-200 |

*typical values

Combined bubble and inclusion counts*

| Diameter (mm) | TSC-4 | TSC-T |
|---------------|-------|-------|
| < 0.1 | n.sp. | n.sp. |
| 0.1 - 0.2 | < 5 | < 1 |
| 0.2 - 0.5 | < 0.1 | 0 |
| 0.5 - 1 | 0 | 0 |
| > 1 | 0 | 0 |

*typical counts per 100 cm³

Available dimensions

- Heavy Wall Hollow Ingots
- ID down to 280 mm
- OD up to 440 mm
- Wall thickness: up to 70 mm

Similar to our natural TSC products, we offer TSC-T in a near net-shape geometry to minimize excess material during the machining process. Typical dimensions like OD 360mm x ID 290mm or OD 430mm x ID 290mm are available in large volume.