



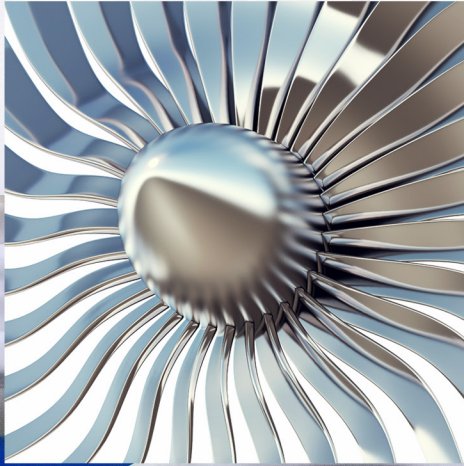
MATRIX™

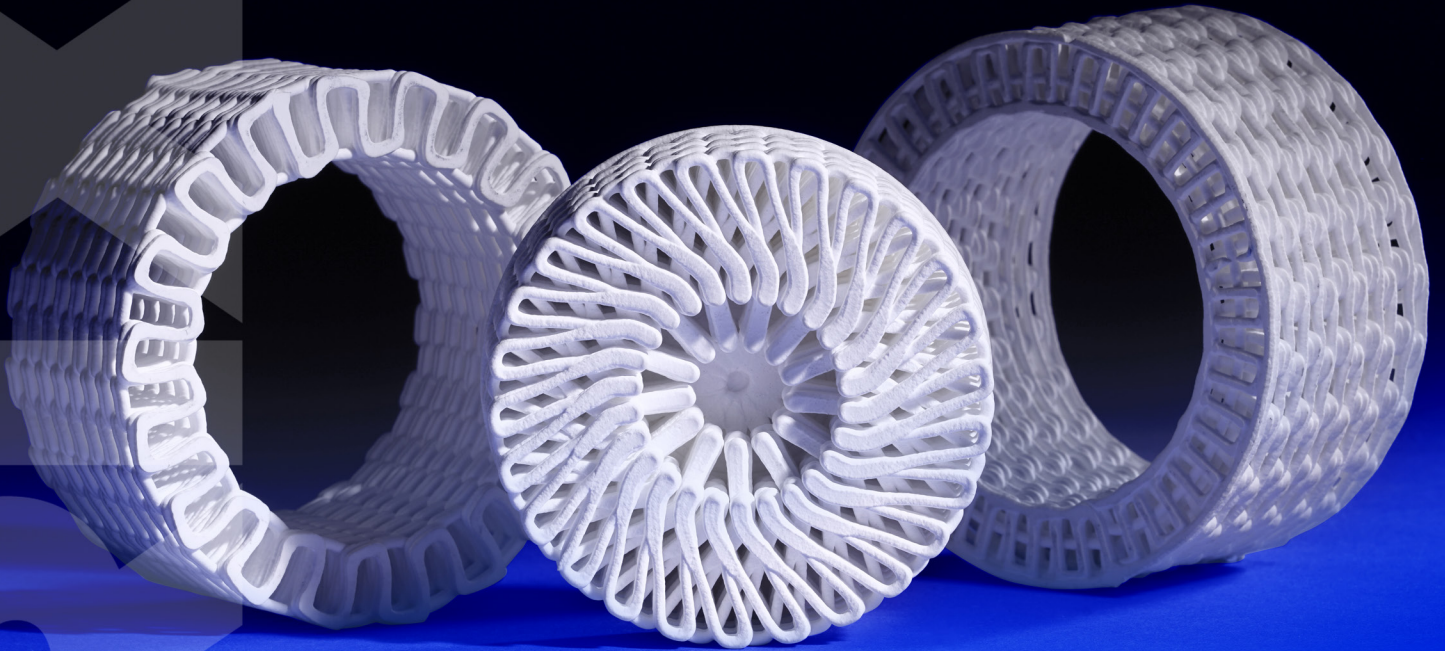
FILTRATION TECHNOLOGY



MATRIX™

MATRIX™ is an additive manufacturing process for making engineered structures in high temperature molten metal filtration.





Advantages of SELEE Matrix Filters®

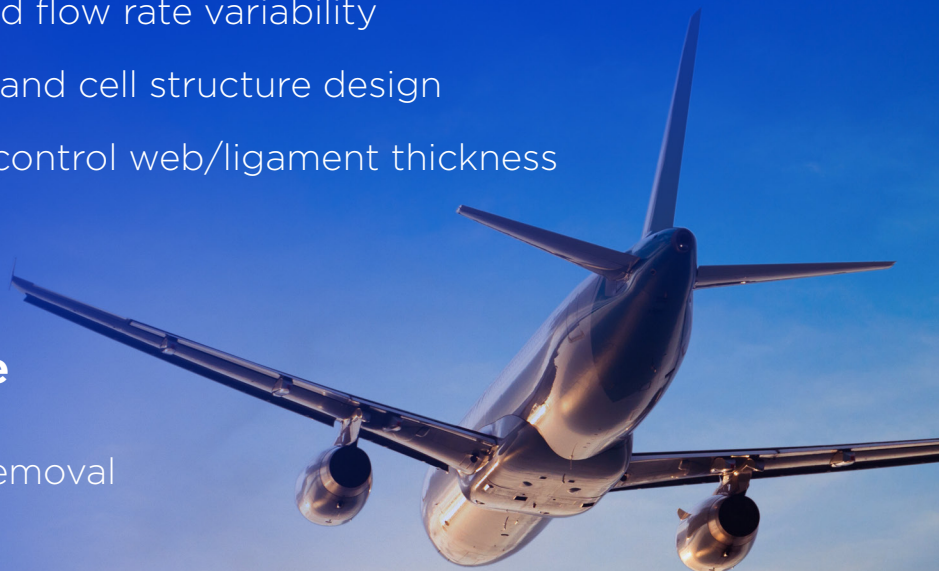
- Significantly improved structural integrity compared to ceramic foam.
- Elimination of hollow struts in reticulate foam structure.
- Elimination of loose filter fragments in the shell after autoclaving.

Engineered Structures

- More consistent – Reduced flow rate variability
- Flexibility filter geometry and cell structure design
- Flexibility to change and control web/ligament thickness
- Variable cell spacing

Tortuous Cell Structure

- More effective inclusion removal



Refractory Materials

- Sinter bonded high purity alumina
- MgO- partially stability zirconia (MgO-PSZ)
- Zirconia toughened mullite (ZTM)

Wide Range of Geometries

- Square
- Round
- Rectangular
- Cylindrical radial flow
- Tapered (pouring cup filters)

Bead Diameter: 0.03 to 0.06



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