



AEROSPACE







## FULL RANGE OF CERAMIC FOAM FILTRATION TECHNOLOGY

### FILTERS for SPECIAL METALS and ALLOYS

- Research & Development/New Filter Products

### FILTER SYSTEM PROJECTS

- Equipment Design, Manufacture, Technical Support

## Ni-Cr SUPERALLOYS

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- Master Melt Casting
- Air-melting
- Vacuum-melting
- Investment Casting

## ALUMINIUM

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- Primary/Secondary Castshop
- Al Foundry Cast components

## STEEL

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- Steel Foundry
- Cast components

## IRON

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- Iron Foundry
- Cast components

SELEE has the right ceramic filter composition for any metal you may pour in your investment foundry. Whether it's master melt or casting, our investment casting filters can be supplied in a wide range of sizes and shapes.





**Filter Technology and Filters =**  
Higher Metal Quality = Lower Costs



**A) Engine Components SELEE filters for air /vacuum-melting**

- NP®-range: for casting
- Superalloy Master Melts
- NPAL®-range: for casting
- Superalloy DS/SX blades
- Superalloy engine components

**B) Aircraft Structure & Components SELEE filters for metal melting**

- CS®-range: for casting
- Hard and Soft Al-alloys (1,2,3,4,5,6,7xxx)
- Al-Li alloys
- IC®-range: for casting Al components
- PSZ®-range: for casting Steel components
- T2 and Carbon foam for Magnesium castings





**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
- Flexible filter geometry and cell structure design
- Flexibility to change and control web/ligament thickness
- Variable cell spacing

### Tortuous Cell Structure

- More effective inclusion removal





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