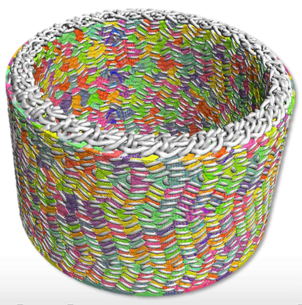
Hot gas filtration technology
D3SM: design-to-function filter

Status quo hot gas filtration

Problem
Structural randomness is inefficient and uncontrollable



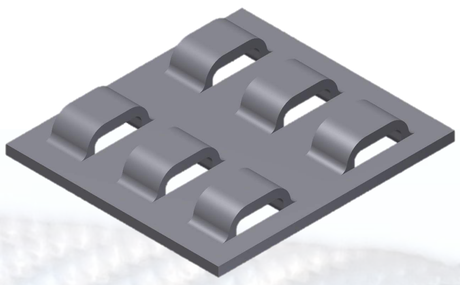
Task
Replace structural randomness with defined function

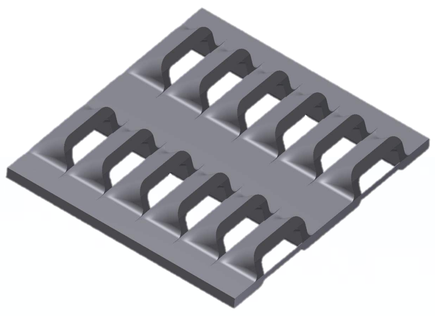
"The rainbow problem"

Approach
Define filter structure

Approach
Create ideal flow object

Approach
Rethink regenerator assembly

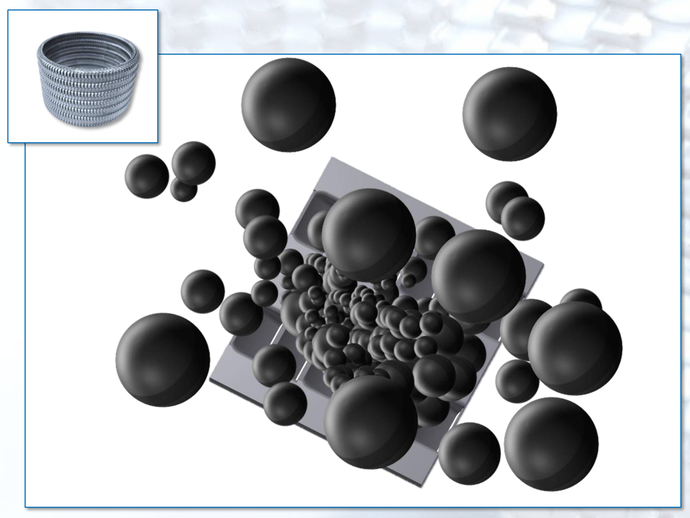




D3SM

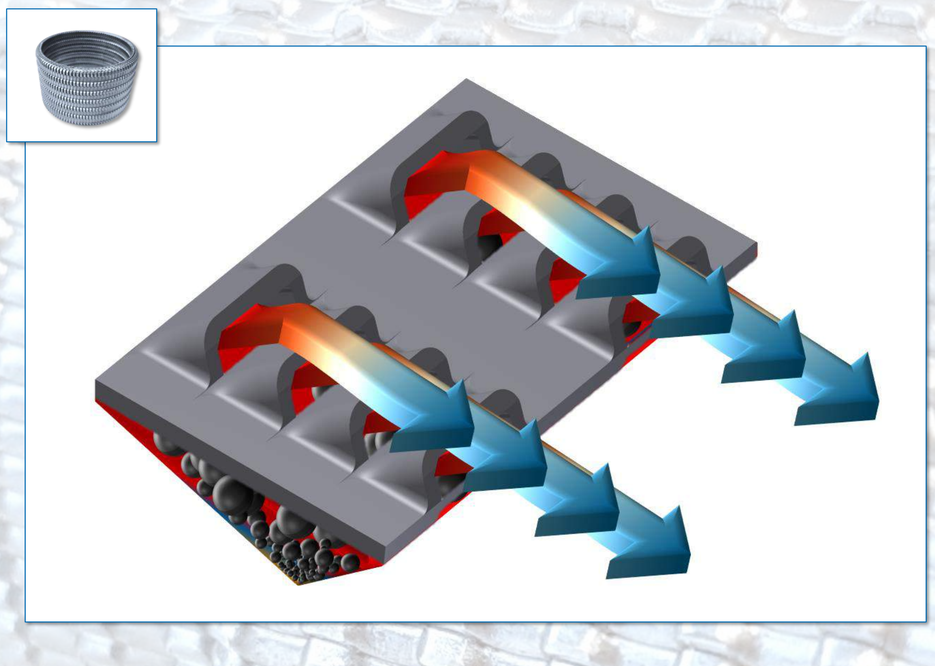
Depth-defined slit metal (D3SM) for controllable and efficient hot gas filtration

Avoid pinholes



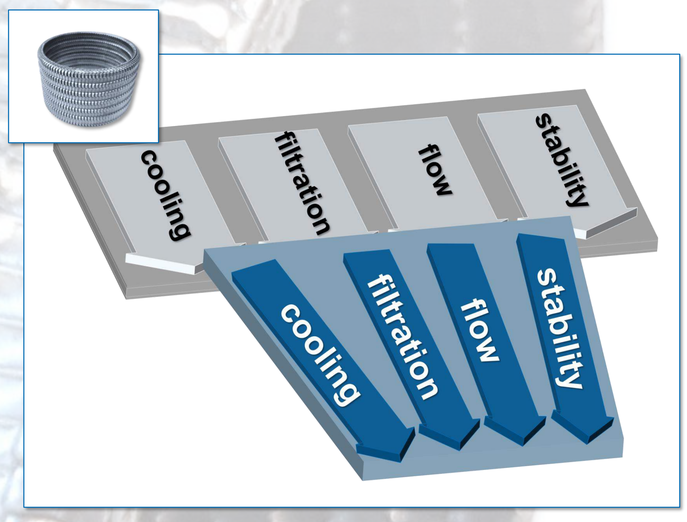
- Agglomeration as filtration principle
- Increased dirt hold capacity of filter

Control all variables



- Defined depth-structure of multi-layered filters
- Definable design-to-function filter structure

Reduce perform.-weight



- Precise corridor for all performance parameters
- Enables optimized filter design

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