

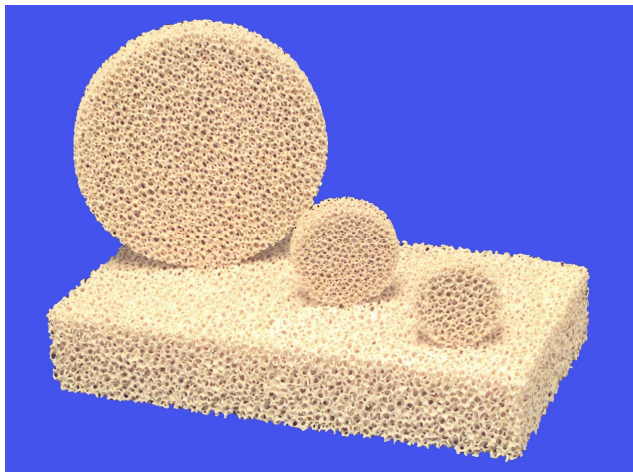


Silcor® EFCS

Exhaust Filtration/Catalyst Substrate

A Filtration and Catalyst Support for Automotive Applications from SELEE Corporation (ISO 9001 certified)

- *Improves CO and NOx removal efficiency*
- *Maintains pressure drop specifications*
- *Significantly more robust with improved thermal shock and thermal cycling rating*
- *Cost effective custom geometry capability for improved design space considerations*
- *Patented highly inert ceramic oxide composition*
- *Highly refractory, resist melting*



SELEE Corporation offers Silcor® EFCS Ceramic Foam, the latest innovation in automotive exhaust filtration and catalyst support technology. The unique “tortuous path” structure and patented ceramic composition of Silcor® EFCS provides many benefits simply not possible with straight channel substitutes.

Silcor® EFCS provides massive surface area and readily accepts any catalyst coating requirement. Density is carefully controlled to meet today’s stringent exhaust flow specifications and provides a cost effective alternative to “wall flow” ceramics. Easily combine different pore sizes to engineer the optimum efficiency for your engine displacement. Customize the geometry for all your design requirements.

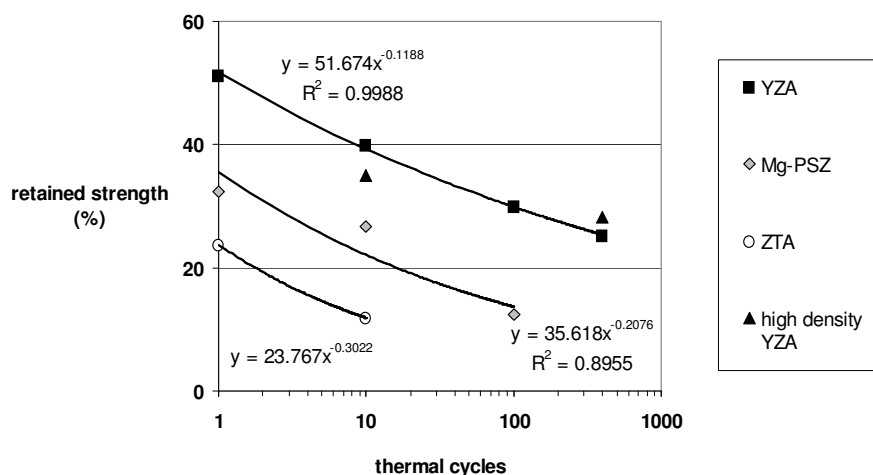
For more information on how Silcor® EFCS can help your design team meet current and future emission regulations, please contact SELEE Corporation.

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Silcor® EFCS Material Property Data

Silcor® EFCS						
Properties	Units	Specifications				
Pores Density	Pores/in ³	8K/20ppi	270K/30ppi	64K/40ppi	125K/50ppi	
Geometric Surface Area	cm ² /cm ³	12	20	28	37	
Maximum Operating Temperature	°C	1600				
Density Range	% Bulk	14-16%				
Material Chemistry		Y ₂ O ₃ /CaO/ZrO ₂ /Al ₂ O ₃				
Coefficient of Thermal Expansion	X10 ⁻⁶ in/in/°C	9				
Thermal Shock Resistance	n/a	Very Good				
Modulus of Rupture at 25°C	psi	210				
Compressive Strength	psi	190				
Custom Shapes available from any blank not exceeding the maximum dimensions listed	Height	in	20	20	20	20
	Width	in	20	20	20	20
	Depth	in	2	2	1	1
Tolerance Specifications are +-2% for Length and Width, +-0.06" Thickness for an as fired part.						
Tolerance Specifications are +-0.10" for Length and Width, +-0.06" Thickness for a post fired cut part.						



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