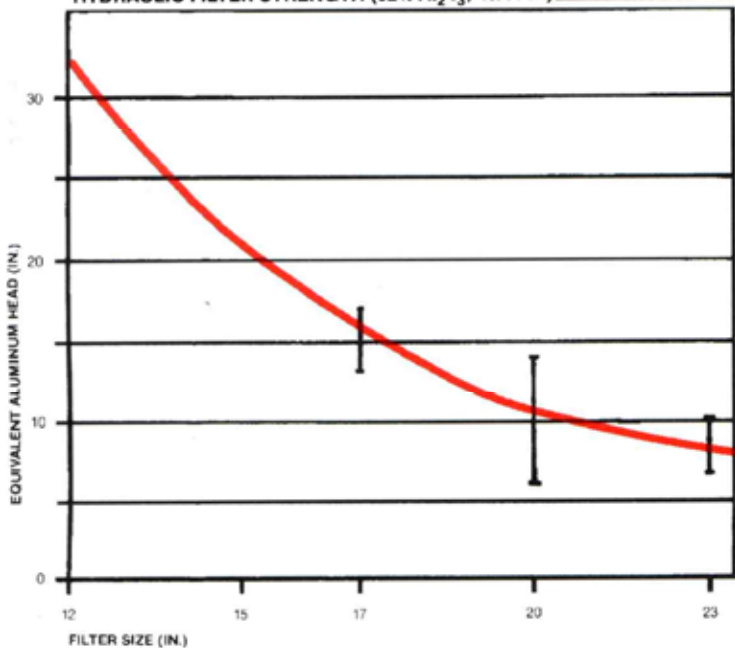


Aluminum Filtration

Hi-Tech Ceramics' proven chemistry, unique manufacturing methods, and high temperature sintering process results in high performance molten aluminum filters for use in the most demanding applications.

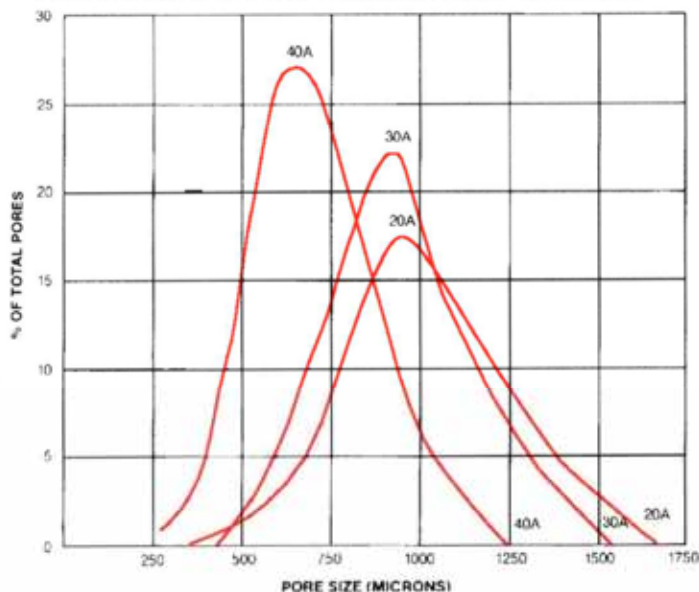
ALUCEL™ aluminum filters are a highly porous, open-cell, sintered ceramic material. Due to the absence of pore blockages, a more open structure is obtained within a specific pore size. This allows greater ease of priming and better flow rates, thus the ability to utilize filters with smaller pore sizes. The finer pore size allows for higher filter efficiency and more effective removal of smaller, non-metallic inclusions.

HYDRAULIC FILTER STRENGTH (92% Al₂O₃, 40A PPI)

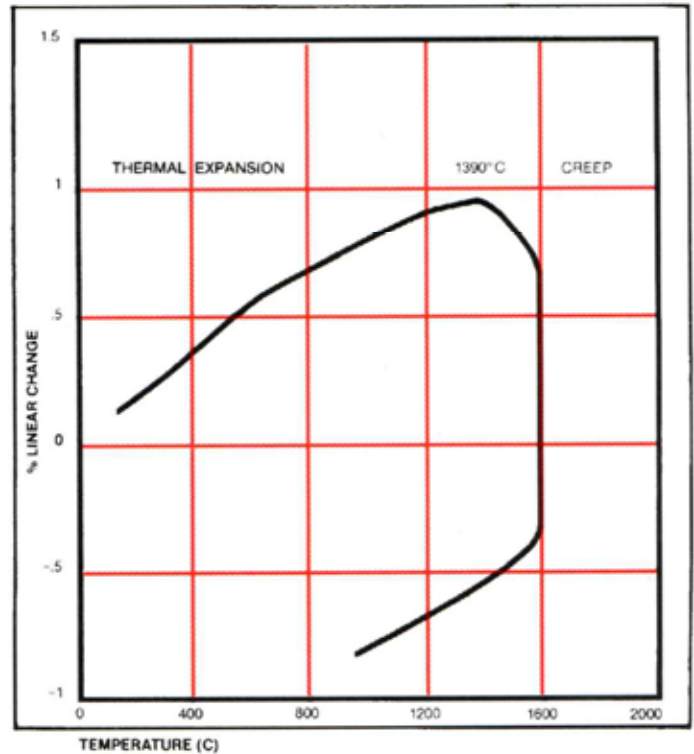


Bi-axial bend strength measured with simulated use configurations and hydraulic loading. Results are converted to equivalent Aluminum head for various filter sizes.

PORE SIZE DISTRIBUTION OF ALUMINUM FILTERS



CREEP OF 92% Al₂O₃ (LOAD: 5 psi)



Percent linear change for ALUCEL™ measured as a function of temperature with a 5psi compressive load. Results indicate no creep deformation below 1390°C.

AVAILABLE SIZES

ALUCEL™ aluminum filters are available in all standard industrial sizes and exhibit dimensional correctness that meets your most stringent specifications. ALUCEL™ aluminum filters are typically produced in a thickness of 1½" instead of the standard 2" thickness of comparable filters because of its superior strength properties. Another unique feature of these filters is their side walls, which can be either tapered to your specifications or produced with a straight wall gasket design. The straight wall design can increase sealing pressure up to a factor of four, creating a more secure seal.

STANDARD FILTER SIZES		STANDARD PORE SIZES
23" x 23" x 1½"	12" x 12" x 1½"	20A
20" x 20" x 1½"	9" x 9" x 1½"	30A
17" x 17" x 1½"	7" x 7" x 1½"	40A
15" x 15" x 1½"	5" x 5" x 1½"	50A

ALUCEL™ aluminum filters can also be custom manufactured to fit your particular requirements.

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