

Reticulated Foams Maximize Surface Area-to-Volume Ratio

Metal, carbon and ceramic reticulated foams—low-density, permeable structures of cells and continuous ligaments—are available in small quantities to researchers and design engineers. Thanks in part to the continuous ligaments, reticulated foams have an unusually high surface area-to-volume ratio. Available from the company in aluminum, stainless steel, nickel, vitreous carbon, alumina, and silicon carbide, these low-density foams also have a high strength-to-weight ratio and possess the same chemical resistance as the parent material. They can be conductive or insulating, depending on the material chosen.

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