Reticulated Foams Maximize Surface Area-to-Volume Ratio

Metal, carbon and ceramic reticulated foams&#151low-density, permeable structures of cells and continuous ligaments&#151are 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.