



Tetra-Motion

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Tetrium-S Application Information

Tetrium-S is a composite of epoxy resin and metal fibres. It can be drilled, sawn, milled and routered with conventional metalworking tools. It can also be machined with router bits but the tool life is shorter than when cutting softer materials. A mixture of water and methylated spirits is a good coolant.

Due to the fibrous nature of the material, dressing with sand paper is usually required to create a smooth finish. For a cosmetic finish Tetrium-S can be painted with any type of paint. It can also be finished by wiping it with epoxy resin or sealing it with coats of PVA adhesive mixed 50:50 with water. A few coats and a light scotchbrite between coats will add a nice shine to the part.



Tetrium-S can be threaded. For best strength a screw diameter to depth ratio is 1:2 ie a 6mm screw would require a 12mm deep thread. If the thread is to be highly loaded then a suitable threadlocker adhesive should be used.

The epoxy matrix of Tetrium-S is fully cured and will have a heat deflection temperature of 75degC. Tetrium can be bonded to itself or other materials using any adhesive suitable for the application.

Do not place Tetrium-S on induction heater elements or in microwave ovens as it will become extremely hot and may catch fire. Fire retarded versions of Tetrium-S are available if needed.

If you have any questions or special requirements concerning Tetrium-S please speak to the technical representative at Tetra Motion.