1471 US HWY 51
Stoughton WI 53589 USA
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+1 (608) 509-7146

Made-To-Order 3D Printing Filaments

Material Requirements

We can process most powders, provided they are not toxic, chemically unstable, or highly reactive (e.g., Sodium or Zinc).

- **Optimal Powder:** Up to 53 microns for filaments printable in 0.6mm nozzles. Up to 105 microns for filaments printable in 0.8mm nozzles.
- **Quantity:** 2 liters (approx. 1–6kg, depending on density)
- **Sourcing:** You may provide your own powder or have us procure it for a $750 fee, plus material costs

Pricing and Lead Times

Manufacturing Base Fee	$7,500 (includes productions, test printing, and packaging)
Exotic Material Evaluation Fee	$500 (may be required for some out-of-spec powders and unfamiliar materials)
Powder Procurement Fee	$750 (paid in advance) + cost of powder
Hazardous Material Fee	$350 (if applicable)
Rush Processing Fee	$2,000
Shipping	Free (Contiguous US); International at cost

Lead time: Estimated 3–6 Weeks from receipt of powder

The Process

1. **Project Plan:** We provide a formal outline of terms and pricing.
2. **Payment:** Full payment is required via Credit Card, Wire, or ACH before work begins.
3. **Production:** We mix your powder with our binder, extrude the filament, and perform test prints.
4. **Delivery:** You receive spooled filament or pellets compatible with open-architecture FFF printers.

Note: Debinding follows our standard published guidelines. We do not perform custom sintering trials.

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Development Projects

If your project requires specific material loading percentages, unique additives (like graphene or carbon fiber), or alternative binders, it falls into our Development category. These projects are handled on a case-by-case basis to meet specialized research goals.

To Move Forward

Ready to start? Email info@thevirtualfoundry.com with your material specifications.

We reserve the right to independently develop and produce products that bear similarities to the product created in your project.