



## Specifications of Shapeways Metal:

### **Stainless Steel, bronze infused**

Alloy Family: 420 SS+Bronze  
UTS: 99 KSI (682 MPa)  
Yield: 66 KSI (455 MPa)  
Modulus: 21.4 MPSI (147 GPa)  
Elongation: 2.30%  
Hardness: 20-25 HRc

There are customers who printed turbine impellers and they run their parts up to 3500rpms for testing purposes. You do need to understand the application but it is a strong material. You can machine it, drill and tap it, weld it, and even RAM or wire EDM it. A machinist told us that the material is tough and that they need carbide bits to mill or drill it.