



ADVANCED POWDER PRODUCTS, INC.

# ProtoMIM®

Metal Injection Molded (MIM) components in three to six weeks. Test and qualify your component in real MIM materials. Metallurgically the same, surface finish the same, mechanically the same. The fastest and lowest cost way to get real MIM components.

- Multiple materials from the same tool
- Save qualification costs
- Good for 100 to 10,000 components
- MIM components in 21 to 42 days



3 weeks:  
case carburized steel



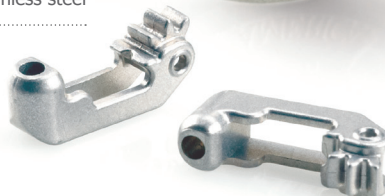
5 weeks:  
17-4PH stainless steel



4 weeks:  
thru hardened steel



6 weeks:  
17-4PH stainless steel



## Materials

- ▶ **Stainless steel**  
(17-4PH, 316L, 310, 420, 440)
- ▶ **Low alloy steels**  
(2200, 2700, 4140, 4340, 4605, 8620, 52100)
- ▶ **Tool steels**  
(A2, S7, M2, M4, T15, M42, H13)
- ▶ **Implantable**  
(MP35N, F2886)
- ▶ **Thermal/Electrical Management**  
(Cu, W-Cu, Mo-Cu)
- ▶ **Magnetic**  
(Fe-50Ni, Fe-3Si, Fe-50Co)
- ▶ **Hardmetals**  
(WC-5Co, WC-10Co)
- ▶ **Refractory metals**  
(Ta, W, Mo)
- ▶ **Heavy Alloys**  
(W-Ni-Fe, W-Ni-Cu)