PRODUCT DESCRIPTION:
Protolabs’ Stainless Steel 17-4PH material is used in our Direct Metal Laser Sintering process. It is available in micro-resolution.

APPLICATIONS:
Used in our micro-resolution DMLS process, Protolabs’ Stainless Steel 17-4PH allows for production quality metal parts with the finest features and tightest tolerances in the industry. 17-4PH is a martensitic precipitation hardening stainless steel that is known for its hardness and corrosion resistance. Applications include medical, aerospace, and mechanical components. To increase mechanical properties, 17-4PH can be hardened with heat treatment. H900 heat treatment will be standard, but parts can be left in the annealed condition upon request.

PROPERTY:  

<table>
<thead>
<tr>
<th>Standard</th>
<th>Ultimate Tensile Strength (ksi)</th>
<th>0.2% Yield (ksi)</th>
<th>Elongation (%)</th>
<th>Hardness (HRC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS5604G</td>
<td>190</td>
<td>170</td>
<td>8</td>
<td>40–47 HRC</td>
</tr>
</tbody>
</table>

KEY PRODUCT BENEFITS
- Heat treated for full hardness and strength
- High hardness
- Corrosion resistant