

## CNC MACHINING MATERIALS

**CNC MILLING AND TURNING** – ProtoEdge offers the materials listed below. However, since we make components out of a wide range of metal and plastic materials we are not limited to materials shown for prototypes and short-run production applications. So if you require a material that is not the list, please let us know and we will review your request. Actual capabilities are dependent upon manufacturing, equipment, materials, and part requirements. For unique requirements to ensure specs are met within the limitation of our technologies, capabilities and processes, a 2D drawing print (s), tolerances, and / or other requirements are required in writing when quotation is requested. We are fully equipped to fabricate components for companies and can quote from PDF 2D drawing (s), STEP, IGES, and SLDPRT model formats.

<b>Technology:</b>	Advanced Subtractive Manufacturing CNC Machining
<b>Material type:</b>	Metal and Plastic
<b>Aluminum 6061 – T651:</b>	Soft Metal
<b>Aluminum 7075 – T651:</b>	Soft Metal
<b>Brass:</b>	Soft Metal
<b>ABS – Black (ABS):</b>	Rigid Plastic
<b>ABS – Natural (ABS):</b>	Rigid Plastic
<b>Delrin – Black:</b>	Rigid Plastic
<b>Nylon 6 – Black:</b>	Rigid Plastic
<b>Nylon 6/6 – Black or Natural:</b>	Rigid Plastic
<b>Nylon 6/6 – 30% or 33% Glass Fill – Natural:</b>	Rigid Plastic
<b>PC – Clear (polycarbonate):</b>	Rigid Plastic
<b>PEEK – Natural (PEEK):</b>	Rigid Plastic
<b>Stainless Steel – 304/304L:</b>	Hard Metal
<b>Stainless Steel – 316/316L:</b>	Hard Metal



Rapid Prototyping Parts & Low Volume Products

## METAL MATERIAL DATA

<b>Steel Alloy 4140:</b>	Hard Metal
<b>Steel Mild Low Carbon CR 1018:</b>	Hard Metal
<b>Tolerance:</b>	± 0.005 in. ~ accuracy may vary depending on material and wall thicknesses.
<b>Applications:</b>	Form, Fit, and Functional Testing of Assembly Components, Sleeves, Bushings, Housings, Pins, Turned Metal-Parts, Valve Bodies Applications.

Disclaimer: The data above is general information and may vary from machine to machine or supplier to supplier. All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. These dimensional tolerances, buyer assumes sole responsibility for the design, and must test and verify the material of the product for each specific application applies to their internal requirements.