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A World Apart in a World of Parts
773.463.6211

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Material Selection

Metal Alloy Type

The **photochemical machining** process is capable of producing your part from over 50 different metal alloys, including:

Alloy 42	Monel
Alloy 48	MuMetal
Aluminum	Nickel
Beryllium Copper	Nickel Silver
Brass	Nitinol
Copper	Permalloy 80
Hastalloy	Phosphor bronze
Hy-mu 80	Silicon steel
Inconel	Spring steel
Invar	Steel
Kovar	Stainless Steel
Metglas	Titanium
Molybdenum	Zirconium

The above list is a partial list of the many alloys we can chemical etch, call or [email us](#) to discuss metals not listed.

Metal Alloy Temper

Most metal alloys that Fotofab can use with the **chemical etching** process are available with different tempers. These tempers determine some physical properties of the metal. The physical requirements of your part will dictate the temper of the metal you decide to use.

Metal Thickness

Fotofab can produce your part with photo chemical machining from sheets of metal ranging in thickness from .0005 inch (0.013 mm) up to .090 inch (2.286 mm). Metal thickness tolerance often varies with the metal thickness; generally, the thicker the metal, the larger the thickness tolerance associated with it.

Fotofab stocks a wide selection of metals with various tempers and thicknesses. It is likely that we can meet your metal requirements from our stock. Our formal Lot Control Program allows us to trace each of your parts back to its certified metal source.

Fotofab metallurgists are available to help you select the most appropriate metal for your application. From **etching aluminum** to zirconium, Fotofab has the tools to get the job done.

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