



## What materials can be cut or engraved by our 150 watt laser?

The rule is that low-power CO2 lasers cannot cut or engrave Metals...!!! The Laser engraver /cutter machines here are of a design that does not mark or cut most metals. While these machines can be of a reasonably high wattage and cut many materials with ease, most metals cannot be cut by the laser machines offered for sale here! The wavelength of the CO2 laser is such that the metals do not easily receive the energy.

Everything other than Metals? Basically... YES!

The laser systems offered here are very well suited for marking and cutting materials such as the following:

Natural materials:

Rock, brick, stone, marble, granite, glass( engraved not cut)

Organic Materials:

Wood, Leather, Plants, Fruit, Vegetables, Sea shells ...etc.

Man Made Polymers:

Acrylic, Plexiglas, Lucite, **laser-friendly** vinyl, Depron, Mylar, Delrin, Styrofoam, styrene, PETG, Kapton tape (Polyimide) nylon & PE -melts badly, ABS yields fair results & smells!

Cloths & Other:

Fabric, Leather, Denim, Jeans, cotton, silk, nylon, Dacron, Paper, magnetic sheets, neoprene, Teflon, etc.

Metals:

Most metals cannot be engraved or cut. We are able to MARK on any Stainless Steel metal with Cermark - Thermank products. We are able to cut through only very thin sheets of Stainless Steel (thickness of only 0.0002 inches). Still ... Aluminum, Copper, brass... NOT engravable.

When in doubt, just provide us with a sample and we will let you know

## What should **NOT** be cut by the laser?

While the laser can cut or engrave.. SOME materials should not be CUT.

**Any material containing Chlorine.**

Vinyl and PVC (Cintra) will product a corrosive gas – both contain chlorine.

Polycarbonate (PC, Lexan) will produce a black and yellow gas that will make your sick to your stomach.

Fiberglass or Printed circuit boards (FR4, G10, anything resin-based)

Carbon Fiber

Cutting ABS yields a fair result, but leaves a bad smell that is hard to get out of your nose.

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