



## Recommend Cutting Oils for TS6, PF10, HP Slab Saws

Never run a diamond blade dry as this can immediately damage your blade. Use one of the oils/coolants recommended below. Coolant should be kept clean and below 100° F. Sludge should be removed periodically and replaced with fresh coolant so that your cuts will be clean and your blades will not be damaged.

### **Shell Amber Neutral 100**

An outstanding low price food grade mineral oil (non-hazardous) Excellent lubricating properties for blades and saw parts. Flushes sludge from rock easily, degreases easily, and sludge settles in saw tank well.

In Southern California Amber Neutral 100 can be purchased from Dion and Sons, Inc [www.dionandsons.com](http://www.dionandsons.com)

### **Hyvolt II**

Electrical transformer cooling oil. A highly refined petroleum product, available from some non-Shell oil distributors, typically only in 55 gallon drums. Same properties and performance as Shell Amber Neutral 100.

### **Chevron Superla #5**

Food grade mineral oil. Non-hazardous lubricating oil for bakeries, breweries and food processing machinery. Good lubricating properties, degreases and settles sludge well. Can go rancid over time (1 year or less).

### **AVATEC 80**

Food grade mineral oil, excellent for slab sawing in all our slab saws.

### **Texaco ALMAG**

Pure petroleum based machining cutting oil. Good for slab sawing but very strong odor. Often the cheapest priced oil available but odor is tough to eliminate.

## **Under NO circumstances should any of the following fluids be used in any of our lapidary saws:**

### **Automotive Antifreeze Coolant**

Ethylene glycol based automotive antifreeze and its vapors are hazardous and toxic. Propylene glycol based antifreeze is non-toxic but has practically no lubricating properties; it functions as a coolant only and its use will lead to rapid blade wear and dulling.

### **Automatic Transmission Fluid**

Does not have adequate lubricating properties for our saws; vapors are considered hazardous and toxic.

### **Water**

A good coolant but has no lubricating properties and causes rust and degradation of exposed iron and steel parts. Causes rapid blade dulling and premature wear. Use of water voids the warranty on all Barranca Diamond saws.

### **CNC Machining fluids**

Water soluble synthetic coolants (i.e. Valenite or Cimtool) are often mixed in a 20:1 blend with water. Fluid vapors are considered hazardous. These fluids do not have adequate lubricating or rust inhibiting properties for the cast iron and steel parts in our slab and trim saws.

### **Diesel, Heating Oil and Kerosene**

Very flammable with a low flash points. At least 3 of our commercial cutting customers in Arizona and Pacific Northwest have burned down their shops using these fluids. Can be very tough to degrease the residue and aroma out of the cut slabs. These fluids are cheap, but very hazardous to use. Diesel is a benzene compound which is carcinogenic. All these fluids can cause severe skin rashes and other ailments.