

# GRINDCLEAN

## LUBRICANTS

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World Class Grinding Coolants and Cutting Fluids



[www.grindclean.com](http://www.grindclean.com)



GrindClean Lubricant's range of products was developed over the last 7 years in response to customer demand. Our customers were asking for a range of more efficient high performance coolants that were environmentally friendly and both OSHA and Health and Safety compliant, while at the same time economical to buy and use.

Time to get into the 21<sup>st</sup> century.

In response to these modern day demands we set about developing the GrindClean range of Water Based Synthetics, Soluble Oil and Pure Oil Coolants.

With today's machines using more and more exotic materials in their construction, we had to develop coolants that were corrosion neutral and also capable of maintaining the correct PH during use. We had to consider issues such as Cobalt Leaching and air-born bacteria. We had to deliver higher flash points due to the high heat and fire potential created by today's higher stock removal rates. We had to consider today's modern filtration systems. Our coolants are capable of being filtered down to sub-micron levels without the loss of performance enhancing additives. Finally, we had to produce low viscosity oils that were stable and safe at all operating temperatures. We achieve this by using only pure oils. At GrindClean we do not use volatile dilutants to achieve reduced viscosity. We refine it that way.

All GrindClean Coolants and Fluids meet or exceed the machine manufacturers specifications and are used by many of the top toolmakers in the USA and Canada. In fact, several Boeing subcontractors use and approve GrindClean coolants exclusively.

We have a full coolant analysis and laboratory facility at your service.

No coolant company is complete without its own laboratory. At GrindClean we have full laboratory and analytical facility where we can quickly analyze coolant and pinpoint performance or health and safety issues, make recommendations and quickly improve cutting performance while reducing costs through higher productivity.

East or West.

No matter where you are we have you covered. With locations in California and North Carolina and soon in the Mid West you can be sure that we will keep your freight costs and lead times to a minimum.

## PRODUCT OVERVIEW

GrindClean GK 05 range is the most modern water based Synthetic Coolant on the market it is also the lowest Cobalt leeching coolant on the market. In tests GK 05 actually leached 50% less Cobalt than tap water. It is biodegradable and is safe and so mild they say it is safe to drink after dilution, but not recommended.

GK 05 take advantage of the latest synthetic polymer technology to bring you the ability to grind faster and more economically while reducing grinding wheel consumption significantly. You don't need to buy expensive chillers or sub micron filtration systems to gain the benefits from GrindClean GK05. GrindClean GK 05 has one of the lowest initial purchase priced products on the market.

**Oil-Pro Range:** The Oil-Pro range of Oil Based Coolants from GrindClean is based on 100 % pure oil. We have 4 options to choose from depending on the type of machine and filtration system. Oil-Pro Mineral, Oil-Pro Light Mineral, Oil-Pro Plus Full Synthetic and Oil-Pro Primus 280.

Oil based coolants rely on the oil for many tasks. Primary function is the cooling of the grinding wheel and the work piece to avoid burning and metallurgical degradation of the work piece and grinding wheel due to excess heat. At the same time the oil has the task of carrying away the abrasive spent grinding wheel particles and work piece swarf. Secondary function is to lubricate the machine and maintain a controlled and stable PH for extended life.

All OilPro products are 100% pure oil. We do not "cut" our oil-based coolants by adding thinners that cause the flash point to drop to potentially low levels. Oil-Pro products do not evaporate costing you a fortune in top-offs. We reduce viscosity through proper refining and not through dilution. In other words, when you buy 55 gallons of Oil-Pro you buy 55 gallons of pure undiluted oil.

**Cut-Cool range of Soluble Oils:** GrindClean's range of Soluble oils are designed for today's modern high speed grinding, turning and milling machines. Whether CNC or Manual machining you can rely on our latest polymer technology to allow you to run your machines to full capacity. Special anti foam and anti-rust additives ensure that operator time is devoted to production and not mopping up spilled foam or rust protecting finished product.



### PRODUCT LINE UP

#### **GrindCleanGK 05 Synthetic Water Based Coolant**

– the best for all grinding operations whether on Carbide, Steel or nonferrous metals or grinding with Diamond CBN or vitrified wheels.

#### **Oil-Pro Mineral Oil Coolant**

– Available in regular or light viscosity for high performance, high speed grinding and machining where light viscosity and a high flashpoint is important.

#### **Oil-Pro Plus Full Synthetic**

– Combines the longer life cycle with even higher flashpoint than mineral oils that is demanded by today's high performance, high accuracy machines.

**Oil-Pro Primus 280** –The very latest Hydro-Cracked and Hydro-Treated synthetic that is compatible with all modern high performance filter chillers and can be filtered down to less than 1 micron without performance reduction.

**CUT-Cool 217** – Our latest high-tech soluble oil cutting and grinding fluid. It features long sump life and great lubricity when used for turning, milling or grinding. It can be diluted as much as 30:1 when grinding steel and other easy to work metals. OSHA friendly formula makes disposal easy. For those leaky machines there is a more economical variety of Soluble Oil too. Please ask.

Call us for Testimonials from satisfied customers you can speak with.

Phone: 828-352-9252  
Fax: 828-352-9164  
sales@grindclean.com  
www.grindclean.com

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**World Class Grinding Coolants and Cutting Fluids**

We have representatives in most states throughout the USA.  
Please contact us to arrange for a representative to visit your company

Please visit our website for further information such  
as MSDS Sheets and detailed specification sheets.

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**Phone: 828.352.9252**

**Fax: 828.352.9164**

**[sales@grindclean.com](mailto:sales@grindclean.com)**

**Grind Clean Lubricants LLC.  
403 Teague Town Road  
Taylorsville, NC 28681**



Made in the USA