

You installed the best grinder.

USE THE BEST FLUID

... THE new standard in high pressure/high speed grinding fluid
now recommended by ITM, Rollomatic, Schutte TGM, Walter Grinders
and most major grinder manufacturers ...

SintoGrind TTS

100% pure synthetic oil



WHAT TO EXPECT

- Longer wheel life
- Faster cycle times
- Higher quality workpieces
- Minimal heat build up in the workpiece
- High flash point

WHAT YOU GET

- Unlimited life span
- Eliminate fluid changes
- Safe for your skin
- No bacteria build up
- Low foam, low mist
- No cobalt leaching

Used exclusively by **GUHRING** world wide,
SONIC TOOLS and many others.

Formulated from a synthetically produced
poly-alpha-olefin (PAO) based fluid.

A flawless molecular composition assuring an extremely durable fluid.

Call 847-468-9700 or Fax 847-468-9701

Website: www.hirschmannusa.com • E-mail: info@hirschmannusa.com

Credit Cards Accepted

SINTOGRIND TTS

Sintogrind TTS is a 100% pure synthetic fluid made from base fluids called PAOs (Poly-Alpha-Olefins). PAOs are synthetically produced by combining a mixture of gases with a catalyst, under heat and pressure, to form a liquid. It is the purest form of a liquid in the world due to its molecular structure. It does not contain any unwanted molecular chains like aromatics and PAH (Polycyclic Aromatic Hydrocarbons) usually found in refined mineral-based oils, which come from crude oil.

Uneven molecular chains, found in all mineral based fluids, even after double and triple refining, break down during high heat and pressure which are associated with the grinding process. This creates the gradual deterioration of these fluids (cobalt leaching) causing the need for periodic fluid changes.

PAO based synthetics offer a flawless molecular composition made up of extremely rigid, evenly bonded molecular chains that are not affected by any elements of the grinding process. This allows an unlimited life span providing the fluid is filtered properly.

SintoGrind TTS offers a lubricity factor five times higher than mineral based fluids and ten times higher than water emulsions. This is a key factor in grinding because high lubricity is the key to longer wheel life and minimal heat build-up in the workpiece,

which allows for better surface finishes and eliminates surface cracks. SintoGrind TTS offers many other advantages as well:

- An evaporation rate 60% less than a mineral based product.
- Longer wheel life.
- Higher quality workpieces.
- Eliminates fluid changes.
- Low foam, low mist.
- Physiologically safe because it contains NO hazardous elements.
- Stable viscosity at various temperatures.
- Excellent for High Speed Grinding operations.
- Will NOT develop bacteria, fungi, or yeast as in water emulsions.
- Faster cycle times.
- No cobalt leaching

Sintogrind TTS was developed in Europe for use with edge type, DE, paper and cyclonic filtration systems. It is recommended by ITM, Rollomatic, Schutte TGM and Walter Grinders both in Europe and the US and is the fluid used exclusively in their showrooms for test cuts.

SintoGrind TTS is available in 55-gallon (208 liter) drums and 264-gallon (1000 liter) containers. Contact Hirschmann for your nearest warehouse location.

HIRSCHMANN

Importer of Quality European Products