



### COOLANT CONCENTRATES

**Switch to the exceptional, not just the functional.  
Switch to Hangsterfer's.**

Hangsterfer's bio-stable technology has evolved from high quality Emulsifiable Oils (high oil content) into Semi-Synthetics (low oil content) and Full Synthetics (no oil content). Hangsterfer's only uses highly refined, ultra-pure ingredients.

Hangsterfer's Coolant Concentrates are formulated with advanced technologies, which utilize synthetic, vegetable and petroleum components. We do not use Secondary Amines such as Diethanolamine (DEA), Dicyclohexylamine (DCHA), Diisopropanolamine (DIPA), and Morpholine.

Secondary Amines react with nitrogen compounds to form Nitrosamines, the leading cancer risk associated with the use of coolants.

#### Emulsifiable Oil

- HE-2
- Missile Lube® 5EH
- Missile Lube® 8EH
- S-500®
- S-500® CF
- S-502 CF
- S-506 CF
- S-555
- S-1001

#### Synthetic

- Crystal Cut® 322
- Crystal Cut® 355
- Crystal Cut® 465
- CT-50
- R-100
- Cobalt Grinder

#### Semi-Synthetic (Micro-Emulsions)

- S-737
- S-747
- S-777
- S-787

### CUTTING OILS

**World class performers in the most demanding applications.**

Hangsterfer's Cutting Oils are recognized by Swiss Style Screw machine manufacturers around the world. Our Hard-Cut® series has improved tool life and surface qualities by as much as 300%! In addition to the lubricity provided at the cutting zone, our cutting oils provide excellent lubrication for the machine slides, guide bushings, bearings and spindles. Some can even be used in bar feeders.

In Hangsterfer's Chlorinated Hard-Cut Series we only use Long Chain Chlorinated Paraffins which are the industry's safest chlorinated extreme pressure additives.

Missile Lube® Series are both chlorine and sulfur free.

PC Series are our vegetable based cutting oils.

CC Series are our high quality economy cutting oils.

No matter what the requirement, Hangsterfer's has a cutting oil solution.

#### Hard-Cut

- Hard-Cut 5118
- Hard-Cut 5258
- Hard-Cut 5258 LT
- Hard-Cut 5318
- Hard-Cut 5418
- Hard-Cut 5518
- Hard-Cut 5618
- Hard-Cut 8226
- Hard-Cut NG
- Hard-Cut NG CF
- Hard-Cut NG 22
- Hard-Cut NG 22 CF

#### CC Series

- CC 10
- CC 22
- CC 46
- CC 90
- CC 222
- CC 332
- CC 442

#### Grinding Oil

- Grinding Oil 2
- Grinding Oil 10
- Grinding Oil 32
- Grinding Synthetic 8

#### Missile Lube

- Missile Lube 1
- Missile Lube 1XL
- Missile Lube 1XXL

#### Tapping/Misting

- SuperAllTap
- SuperAllTap CF
- SuperAllTap Light
- SuperAllMist
- SuperAllMist 2000

#### PC Series

- PC 10
- PC 20 (22)
- PC 28
- PC 45

### MACHINE LUBRICANTS

**Specially developed to optimize the life of your coolants.**

Nearly 30 years ago, Hangsterfer's developed "coolant compatible" machine lubricants that do not cause negative coolant effects such as odors, staining and dermatitis.

Our unique "coolant compatible" formulation allows the oil to remain on the sliding surface in a completely fluid-like state, thus protecting the surface more effectively than old technology. Water is repelled which improves lubrication and prevents corrosion. Once you perform the easy conversion to our Way Oil Series, you will immediately see the benefits.

#### Spindle and Hydraulic Oil

- Antiwear 2
- Antiwear 10
- Antiwear 22
- Antiwear 32
- Antiwear 46
- Antiwear 68
- Antiwear 100
- Antiwear 150
- Antiwear 220

#### Slide Way Oil

- Way Oil 1
- Way Oil 2
- Way Oil 3
- Way Oil 4
- Way Clear 2

# METALFORMING COMPOUNDS

**No other products give you such reduction capability.**

Hangsterfer's "grease-like" metalforming compounds are highly fortified with additives that prevent metal-to-metal contact at the tool-workpiece interface where temperatures can exceed 1000°C. Elastohydrodynamic Lubrication (EHL) forms an evenly distributed film that eliminates galling and improves surface quality. It develops under extreme pressure from our use of long-chain chlorinated paraffins, select synthetic fats and synthetic oils.

## Aldraw®

Aldraw J-1 Dark  
Aldraw J-1E  
Aldraw J-2 Dark  
Aldraw J-2E  
Aldraw J-4E  
Aldraw J-50

Aldraw JD-8801  
Aldraw JD-9020  
Aldraw JD-9030  
Aldraw JH-9402  
Aldraw 44 1/4XX  
Hard-Form 57

# TSP® EQUIPMENT

**Contact us for a complete brochure.**

Total System Partnership® (TSP) is the Hangsterfer's division that supplies basic yet functional equipment which aids in the longevity of metalworking fluids. "Walk before you run" and "keep it simple" are the basis of the TSP philosophy.

Since our lubricants are engineered to be recycled, it makes sense to partner them with basic fluid management equipment. Adding TSP products to your operations will help reduce fluid related costs.

## TSP

Proportionators  
Tramp Oil Skimmers  
Coalescers  
Refractometers  
Filters – Portable  
Javelin Filter

Sump Suckers  
Totes  
Pumps  
Water Treatment  
Mixers  
Laboratory Equipment

# MISCELLANEOUS PRODUCTS

**Hangsterfer's full line of Rust Inhibitors, Cleaners and Specialty Additives.**

Hangsterfer's Rust Inhibitors are available in both aqueous and non-aqueous varieties. We have products for very short term, as well as long term protection.

Aqueous cleaners are available in a variety of detergency and pH ranges depending on the cleaning objectives. Hangsterfer's offers non-aqueous cleaning solvents, which are ozone friendly.

Specialty additives are used for making adjustments needed to compensate for engineering changes.

## Rust Inhibitors

Protect All  
Rust Coat 10  
Rust Coat 40  
Rust Coat 60  
Rust Coat 2000  
Metal Deactivator

## Cleaners

Clean All  
Floor Cleaner  
Ozonic® 203  
Res-X  
VS-315

## Specialty Additives

Boost  
Calcium Liquid  
FoamBlock®  
PreClean  
Refresh

# DIELECTRIC FLUIDS

**User and environmentally friendly.**

Crystal Brite was developed to improve the spark erosion process in sinker style EDM machines. It has allowed users to increase amperage, thus reducing process time by as much as 30%. Also, it creates a non-conductive channel allowing the spark to hit its target accurately and at full charge. Crystal Brite EDM reduces carbonization which reduces gummy residue.

## Dielectric Fluids

Crystal Brite® EDM



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