



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)

- 5030
- 5040
- 5070
- 5080

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 15
- Hard-Cut NG 22
- Hard-Cut NG 22 CF

Missile Lube

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

PC Series

- PC 10
- PC 15
- PC 20 (22)
- PC 22 HD
- PC 28
- PC 45

Grinding Oil

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

Tapping/Misting

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

CC® Series

- CC 10
- CC 15
- CC 22
- CC 32
- CC 46
- CC 90
- CC 222
- CC 332
- CC 442

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
- Grease 2

Slide Way Oil

- Way Oil 1
- Way Oil 2
- Way Oil 3
- Way Oil 4
- Way Oil 7
- 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
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
Rust Coat H-129
Metal Deactivator

Specialty Additives

Boost
Calcium Liquid
FoamBlock®
Foam-X
PreClean
Refresh

Cleaners

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

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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ORTHOWORLD

