CC 10 / CC 22 / CC 46 *(Straight Cutting Oil)*

FEATURES

- Excellent Filterability
- Superior Lubricity Package
- Low Odor
- High Flash Point
- Low Foaming
- Non-Irritating
- Non-Toxic
- Chlorine Free

GENERAL DESCRIPTION

Hangsterfer's **CC series** provides benefits in productivity, equipment life, and environmental compliance. Clean Without Compromise: the operator is exposed to less mist and the machine to fewer residues. These economically priced, chlorine-free, cutting oils are designed to perform in a broad range of metalworking operations, offering superior lubrication to the machine tool and the work piece. The highly refined raw materials used in the **CC series** afford ready filterability, extending the oil's useful life.

APPLICATIONS

Primary		**Secondary**
Broaching	Milling	Forming
Gear Cutting	Punching	Grinding
Gear Grinding	Stamping	Hobbing
Gun Drilling	Tapping	Sawing
Honing	Turning	

MATERIALS

Primary		**Secondary**
Aluminum	Nickel Alloys	Cast Iron
Brass	Stainless Steel	Graphite
Carbon Steel	Titanium	Plastic
Copper	Tool Steel	Precious Metals

INSTRUCTIONS

The **CC series** are used as is from the drum. Do not add other products unless recommended by Hangsterfer's.

CC 10 is the lightest of CC series: ideal for high speed turning, machining and stamping.

CC 22 is the most popular CC series cutting oil viscosities. Designed to meet the increasingly popular cutting and grinding viscosity: ideal for flow through ultra-small tooling yet enough lubricity to handle larger diameter bar stock. Ideal for use in CNC Swiss-style turning centers, especially those requiring chlorine-free oils, as well as CNC Mills and Lathes.

CC 46 is a medium viscosity cutting oil in our CC series: ideal for automatic screw machine operations. The higher viscosity of **CC 46** means the product remains in the machine to lubricate bearings, bushings, cams, and of course, the tool work-piece interface. **CC 46** is also ideal for larger multi-spindle and cam-style screw machines.

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PRODUCT CHARACTERISTICS

Product Name:	CC 10	CC 22	CC 46
Form	Liquid	Liquid	Liquid
Color	Golden	Golden	Golden
Odor	Mild	Mild	Mild
Specific Gravity	0.85 - 0.88	0.85 - 0.88	0.90 - 0.92
Viscosity: SUS @ 100°F	55 - 70	77 - 120	195 - 238
cSt @ 40°C	9 - 13	15 - 25	42 - 51
Flash Point, COC, °F/°C	350 / 177	405 / 207	374 / 190
Fire Point, COC, °F/°C	315 / 157	374 / 190	394 / 201
Pour Point, °F/°C	0 / -18	0 / -18	0 / -18
Solubility in Water	<0.01%	<0.01%	<0.01%
Boiling Point, °F/°C	414 / 212	430 / 221	439 / 226
Vapor Pressure, mm Hg@25°	<0.01	<0.01	<0.01
Active Sulfur	No	No	No
Chlorine	No	No	No

MAINTENANCE

Maintenance: In order to get the maximum life from your oil, keep the sump free of cleaners, solvents, rust inhibitors, coolants and other contaminants which may inhibit performance. The **CC series** is designed to reject foreign contaminants, such as metal fines. If the performance of the oil begins to deteriorate, remove it from the machine, allowing fines and contaminates to settle in an empty drum or tank for 3-7 days, and return the top 80% to the clean machine.

Cleaning: Hangsterfer's products are formulated to be cleaned in Aqueous, Semi-Aqueous, and Solvent based cleaning systems. Depending on the required level of cleanliness one or more cleaning systems might be required. Hangsterfer's neutral pH "Clean All" (Aqueous) and "Ozonic 203" (Solvent) can be used separately or part of a multistep cleaning system. Cleaning systems agitation, pressure, ultrasonic, time, and temperature greatly aid the efficiency.

WASTE TREATMENT

Dispose of in accordance with local, state, federal and international laws. As with most used straight oils, the **CC series** can often be re-refined.

SHIPPING UNITS

All Hangsterfer's products are available in pails, drums and Intermediate Bulk Containers (275 gallons). All products are distributed worldwide.

Date: 14 November 2017 Revised: 12 July 2023

Disclaimer: All reasonable care has been taken to ensure that the information contained in this publication is true and accurate. No warranty is expressed or implied regarding the accuracy of the data. The general description, recommended uses, application data and statements in the product literature are guidelines. Because this product may be used for a variety of applications over which Hangsterfer's Laboratories, Inc. has no control, Hangsterfer's Laboratories, Inc. assumes no liability for incidental, consequential, or direct damages of any kind, regardless of causes, including negligence. Also, seller is not liable for any loss, damage or liability resulting from the use of the product in the buyer's manufacturing processes or in combination with other substances. SDS's are available for all Hangsterfer's products and should be consulted as needed.