

## WAY OILS 1 / 2 / 3 / 4 / 7

### GENERAL DESCRIPTION

Hangsterfer's slideway lubricating oils are formulated to provide excellent machine tool performance, while eliminating the problems of coolant degradation associated with tramp oil contamination.

The full range of Hangsterfer's Way Oils offer superior slideway adherence, stick-slip friction characteristics and complete water soluble coolant separation. By separating quickly and completely from your water soluble coolant, you will achieve the maximum in cutting performance and sump life. In addition, because they minimize water solubility, they are less likely to be prematurely wash off the ways.

The Way Oil series is formulated with high quality additives under strict quality control, resulting in products that meet or exceed international specifications established for slideway oils. The Way Oil series is available in 5 viscosities that meet the International Standards Organization (ISO) viscosity requirements for machine lubricants. All Hangsterfer's Way Oils meet or exceed the Cincinnati Machine P-47 specification.

<b>PRODUCT CHARACTERISTICS</b>					
<b>Way Oil</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>7</b>
Form	Liquid	Liquid	Liquid	Liquid	Liquid
Color	Amber	Amber	Amber	Amber	Amber
Odor	Mild	Mild	Mild	Mild	Mild
Specific Gravity	0.87	0.88	0.88	0.89	0.89
Viscosity: SUS @ 100°F	150	315	695	1000	2130
cSt @ 40°C	32	68	150	220	460
<b>ISO Grade</b>	<b>32</b>	<b>68</b>	<b>150</b>	<b>220</b>	<b>460</b>
Viscosity Index (VI):	>95	>95	>95	>95	>95
Flash Point, COC, °F/°C	410 / 210	420 / 215	440 / 226	440 / 226	570 / 298
Fire Point, COC, °F/°C	435 / 223	450 / 232	450 / 232	450 / 232	600 / 315
Pour Point, °F/°C	<0 / -18	<0 / -18	<0 / -18	<0 / -18	10 / -12
Solubility in Water	<0.01	<0.01	<0.01	<0.01	<0.01
Boiling Point, °F/°C	>450 / 232	>450 / 232	>450 / 232	>450 / 232	>600 / 315
Vapor Pressure, mmHg @ 25°	<0.1	<0.1	<0.1	<0.1	<0.1
pH @ 10%	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Sulfur, Active	0.0%	0.0%	0.0%	0.0%	0.0%
*Chlorine	0.0%	0.0%	0.0%	0.0%	0.0%
Phosphorus	0.0%	0.0%	0.0%	0.0%	0.0%
Solvent Content	0.0%	0.0%	0.0%	0.0%	0.0%
Solids Content	0.0%	0.0%	0.0%	0.0%	0.0%
Silicone	0.0%	0.0%	0.0%	0.0%	0.0%

\*Hangsterfer's uses only non-hazardous, chemically bound, long chain chlorinated paraffin.

### SHIPPING UNITS

All Hangsterfer's Products are available in 1 gallon, 5 gallon, 55 gallon and Intermediate Bulk Containers (260 or 330 gallons). All products are distributed worldwide.

Revised 01/30/04

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.

