



# INDUSTRIAL & ENGINEERING



**Crown Oil**  
**Fuels and Lubricants**



# SYSTEM OILS

## SLIDEWAY 32-320

Manufactured from highly refined mineral oil base stocks compounded with multifunctional additives to provide all of the requirements necessary for gearboxes, slideways, hydraulic systems and general lubrication of machine parts with the same product.

The additive package minimises dripping of the oil, eliminates stick-slip on machine tool slideways, exhibits extreme pressure performance to provide high load carrying capability and minimises wear. In addition, these oils can be used to lubricate conveyor chains and chainsaw blades.

### BENEFITS

- ✔ Multifunctional lubricant – reduces lubricant inventories
- ✔ Protects against machine tool corrosion
- ✔ Resistant to oxidation
- ✔ Excellent stick-slip performance
- ✔ High load carrying capacity
- ✔ Good demulsibility

### PERFORMANCE

- ✔ Gear applications according to: US Steel 222/3/4, DIN51517 pt 3, SEB 181 226, AGMA 240.04
- ✔ Hydraulic applications according to: DIN 51524 pt 2 (HLP), AFNOR NF E 48-603 (HM)
- ✔ Slideway applications according to: Cincinnati Milacron P-50

SAE Viscosity Grade	32	68	100	220	320
Specific Gravity 15°C	0.884	0.885	0.886	0.898	0.900
Kinematic Viscosity 40°C	32cSt	68cSt	100cSt	220cSt	320cSt
Kinematic Viscosity 100°C	5.3cSt	9.2cSt	10.9cSt	19.1cSt	24cSt
Viscosity Index	95	95	95	96	94
Flash point °C	205	208	221	232	240
Pour Point °C	-15	-15	-9	-9	-9

## HEAT TRANSFER OIL

A high-quality mineral oil based thermal fluid, for use primarily in closed liquid-phase heating systems that incorporate both heating and cooling branches.

### BENEFITS

- ✔ Excellent resistance to thermal cracking and chemical oxidation and is non-corrosive and non-toxic
- ✔ Low pour point, and therefore provides excellent circulation at low temperatures
- ✔ Can be used up to a bulk temperature of 315°C and will also operate at bulk temperatures as low as -10°C

### APPLICATION

The application limits of heat transfer oils depend firstly on circulating speed, and secondly on temperature in closed circuit systems. Before commissioning, the heat transfer system should be pressure tested for leaks and then thoroughly flushed with Heat Transfer Oil, before filling with fresh Heat Transfer Oil.

All air must be vented from the system before full temperature is imposed. For maximum efficiency, the heat transfer fluid should be circulated in conditions of turbulent flow. Care must be taken to minimise exposure to air and that the bulk fluid temperature does not exceed 315°C. It is recommended for closed circulating systems equipped with expansion tanks.

SAE Viscosity Grade	5	10	15	22	32	46	68	100	150	220	320	460
Specific Gravity 15°C	0.815	0.843	0.860	0.862	0.860	0.864	0.878	0.890	0.892	0.895	0.900	0.903
Kinematic Viscosity 40°C	4.9 cSt	9.7 cSt	16.2 cSt	21 cSt	32 cSt	46 cSt	68 cSt	100 cSt	150 cSt	220 cSt	320 cSt	475 cSt
Kinematic Viscosity 100°C	1.7 cSt	2.1 cSt	3.4 cSt	4.2 cSt	5.3 cSt	7.0 cSt	8.8 cSt	11.2 cSt	14.7 cSt	19.0 cSt	24.3 cSt	31.0 cSt
Viscosity Index	80	80	78	95	115	108	101	97	97	97	97	95
Flash point °C	130	150	160	214	214	230	240	240	240	250	250	288
Pour Point °C	-18	-15	-14	-20	-15	-13	-11	-9	-9	-9	-8	-9



# SPECIALITY PRODUCTS

## QUENCHING OIL

This is a high quality non-additive oil with good inherent oxidation stability and carefully chosen viscosity to suit all general-purpose quench oil applications.

### BENEFITS

- ✔ Fast uniformed quench rates
- ✔ Outstanding oxidation stability
- ✔ Low fuming properties

SAE Viscosity Grade	22	32	100	460
Specific Gravity 15°C	0.851	0.882	0.886	0.900
Kinematic Viscosity 40°C	19.6cSt	30cSt	99cSt	460cSt
Kinematic Viscosity 100°C	4.1cSt	5.2cSt	14.2cSt	31.0cSt
Viscosity Index	102	95	95	97
Flash point °C	215	210	242	260
Pour Point °C	-12	-15	-15	-9
Conradson Residue	<0.02	0.02	0.13	0.70
Colour	<0.5	2.0	3.5	5.5
Neutralisation Number	<0.01	0.01	0.01	0.01

## SPARK EROSION FLUID

A specially selected distillate for use as a multipurpose electro-discharge machining fluid.

For rough and final machining of medium sized or large parts and for finishing of parts with a complex profile or which require high precision.

**BENEFITS** (Meets or exceeds the following performance requirements)

- ✔ Low aromatic content
- ✔ Low odour/fuming
- ✔ High metal removal rates
- ✔ Low electrode wear
- ✔ High resistance to oxidation
- ✔ Non-toxic

## TRANSFORMER OIL

An uninhibited transformer oil that conforms to IEC 60296:2012. It has been developed and formulated to deliver solid resistance to oil degradation, provides good oxidation stability thanks to its natural inhibitors. This increases the possibilities for a longer transformer life with less maintenance.

### BENEFITS

- ✔ Designed for heavy duty use: this product has been specially developed for use in oil-filled electrical equipment – including power and distribution transformers, rectifiers, circuit breakers and switchgears
- ✔ Good heat transfer: thanks to low viscosity and viscosity index, this standard grade offers extremely good heat transfer characteristics, ensuring heat is efficiently removed from core and windings
- ✔ Reliable oxidation stability: developed and formulated to deliver good resistance to oil degradation, this grade also provides good oxidation stability for enhanced transformer life and minimum maintenance
- ✔ Very good low temperature properties: naphthenic characteristics allow the transformer to start at the lowest possible temperature without using pour point depressants
- ✔ High dielectric strength: this insulating oil both meets and exceeds the toughest demands on dielectric strength when stored and handled correctly





### TURBINE OIL

Formulated to provide lubrication for turbine power generators and can be used in associated gear boxes, bearings and control systems.

The highly refined base oils used in the formulation contribute to the excellent product demulsibility and low foaming tendency.

### BENEFITS

- ✔ Low foam potential
- ✔ Outstanding oxidation resistance
- ✔ Excellent demulsibility
- ✔ Hight temperature thermal stability
- ✔ Excellent filtration characteristics
- ✔ Extended life
- ✔ Long term corrosion protection
- ✔ Excellent anti-wear, anti-corrosion, anti-foam and anti-oxidation characteristics

### MOULD OIL

A premium blend of highly refined mineral oils with chemical release additives, formulated for use as a general-purpose release agent on a wide variety of concrete pre-cast and moulding operations.

Suitable for general purpose wet cast work on most types of mould and formwork materials including certain types of thermoplastic mould liners.

Can also be used as an end ring release agent in concrete pipe manufacturing processes.

Suitable for use with heat cure systems.

### APPLICATION

Apply by spray, brush or swab. Care must be taken to avoid over-application. For best results apply the thin-  
nest possible uniform coating. Ensure total coverage of formwork.

### FEATURES

- ✔ Low odour
- ✔ Pale colour
- ✔ Non-staining
- ✔ Solvent-free
- ✔ Inhibits blow hole formation
- ✔ Improved health & safety rating
- ✔ Corrosion protection for steel





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