

## DECATHLON™ HTC

### SYNTHETIC HIGH TEMPERATURE OILS

Since their introduction to the Whitmore product line, Whitmore's Decathlon™ HTC oils have proven again and again that they can meet and exceed the performance requirements of the most demanding high temperature applications.

Increasingly OEM's are realizing that the lubricant, far from being an afterthought, can expand the capabilities of equipment, and help provide a performance advantage.

In the area of high temperature lubrication, Decathlon™ HTC oils have given that "edge" in comparison to both well-known and exotic brands of synthetic oil.

Decathlon™ HTC oils are recommended when deposits such as carbon and varnish are not tolerable. The thin film evaporation characteristics of HTC oils are excellent. However, an even more crucial issue is residue. Carbon deposits and varnish cause wear. Not only will Decathlon™ HTC oils not cause these deposits, if equipment is currently suffering from this contamination, the natural detergency of HTC oils will loosen and dissolve it.

HTC oils are a blend of complex synthetic base fluids and a revolutionary combination of synergistic antioxidants

Decathlon™ HTC oils are formulated to protect against a corrosive atmosphere and resist oxidation at high temperatures.

Decathlon™ HTC oils can support fluid film lubrication on chain pins, bearings, and wire ropes at high temperatures.

**BENEFITS:**

- **OXIDATION RESISTANCE** - low formation of carbon, varnish, and other residues. Absolutely no abrasive deposits are formed when used within the recommended temperature range (see below).
- **ANTIWEAR** - chain wear is controlled by excellent fluid film and antiwear properties of a temperature stable additive chemistry.

**APPLICATIONS:**

Decathlon™ HTC oils are recommended for use up to 450°F (230°C) and intermittent service up to 550°F (285°C).

Decathlon™ HTC oils are designed for the lubrication of roller chains, bearings and wire ropes, where protection from wear at high temperatures is needed.

Decathlon™ HTC 930 oil is highly suitable for use in glass bottle forming operations for lubrication of the Glass Machine itself, also conveyor chains, and gearboxes operating at both normal and high temperatures.

Use HTC oils on machines for manufacturing light bulbs and also on continuous presses for manufacture of medium density fiberboard.

ASTM #		TYPICAL CHARACTERISTICS					
		HTC 142	HTC 143-100	HTC 143-150	HTC 930	HTC 940	HTC 947
Grade		ISO 320	ISO 100	ISO 150	SAE 40	ISO 32	SAE 40
<b>D-445</b>	<b>Kinematic Viscosity</b>						
	cSt @ 40°C	312	102	157	200	32	200
	cSt @ 100°C	25	11	14	16	6	16
<b>D-2161</b>	<b>Saybolt Viscosity</b>						
	SUS @ 100°F	1,505	489	756	966	155	966
	SUS @ 210°F	121	52	65	76	27	76
<b>D-2270</b>	<b>Viscosity Index</b>	104	85	75	76	115	76
<b>D-97</b>	<b>Pour Point, °F (°C)</b>	-18 (-28)	-35 (-37)	-30 (-34)	-25 (-32)	-45 (-43)	-25 (-32)
<b>Gardner Method</b>	<b>Density, lb/gal @ 60°F (15.5°C)</b>	7.86	7.95	7.99	8.02	7.64	8.04
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	0.944	0.955	0.959	0.963	0.917	0.965
<b>D-92</b>	<b>Flash Point, °F (°C) Cleveland Open Cup</b>	520 (271)	520 (271)	520 (271)	520 (271)	435 (224)	520 (271)
<b>D-92</b>	<b>Fire Point, °F (°C) Cleveland Open Cup</b>	590 (310)	590 (310)	590 (310)	590 (310)	495 (257)	590 (310)
<b>D-4172</b>	<b>Four Ball Wear, Scar Width, mm @ 40 kg</b>	0.30	0.30	0.30	0.30	0.40	0.30
<b>D-665</b>	<b>Rust Test, Distilled Water</b>	Pass	Pass	Pass	Pass	Pass	Pass
<b>D-130</b>	<b>Copper Strip Corrosion</b> 212°F (100°C) @ 3 hr	1B	1B	1B	1B	1B	1B
<b>D-972 (Modified)</b>	<b>Thin Film Evaporation, % Loss</b> @ 428°F (220°C) @ 6.5 hrs	9	3	2	2	21	2
<b>D-189</b>	<b>Conradson Carbon Residue, % Carbon</b>	0.05	0.09	0.09	0.02	0.02	0.10
	<b>Solid Lubricants</b>	No	No	No	No	No	Yes

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

**PACKAGING**

Drums	Pails
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For warranty information, scan the QR code.  
 You can also email us at [sales@whitmores.com](mailto:sales@whitmores.com)  
 Or write to the Sales Department at the address below.

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