



Hydroclear™ Ultra-Clean Spindle Oil

Conoco Hydroclear™ Ultra-Clean Spindle Oils comprise blends of proprietary base oils and additives specially formulated for use in applications requiring a light spindle oil and light hydraulic oil. The advantages offered by the Hydroclear™ Ultra-Clean Spindle Oils lead to better performance and equipment protection in high-speed spindle applications.

Applications

High-speed needle and spindle bearings typically found in agricultural and textile machinery

Outstanding Features

- Superior wear protection
- Improved frictional properties
- Relatively High Flash Points
- Low color
- Water rejection

**Highly Demulsible
Spindle Oil Meets
ISO 15/12/10
Cleanliness**

**U.S. Technical
Services Hot line:
1-800-255-9556**

**U.S. Customer
Service:
1-800-640-1956**

**International:
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Hydroclear™ Ultra-Clean Spindle Oil
Typical Properties

ISO Grade		2	6	10	22
ISO Cleanliness Code		15/12/10*	15/12/10*	15/12/10*	15/12/10*
Gravity °API	ASTM D1298	43.70	38.4	34.90	33.80
Density, g/ml	ASTM D4052	0.8076	0.8330	0.8506	0.8560
Color, ASTM	ASTM D1500	1 ≤ 0.5	1 ≤ 0.5	1 ≤ 0.5	1 ≤ 0.5
Viscosity,					
cSt @ 21°C	ASTM D445	2.60	8.50	20.1	51.58
cSt @ 40°C	ASTM D445	1.96	5.07	10.04	22.13
cSt @ 100°C	ASTM D445	1.02	1.72	2.60	4.35
Flash Point,					
°F	ASTM D92	250	300	340	335
°C	ASTM D92	122	149	171	168
Pour Point,					
°F	ASTM D97	-65	-40	-35	-45
°C	ASTM D97	-54	-40	-37	-43
Four-Ball Wear Test, D4172A					
Scar Diameter, mm		0.519	0.193	0.215	0.437
Coefficient of Friction		0.062	0.043	0.029	0.051
Emulsion Characteristic	ASTM D1401	40-40-0-5	40-40-0-10	40-40-0-10	40-40-0-10
Rust Test, ASTM D665, A&B		Pass	Pass	Pass	Pass
Copper Corrosion	ASTM D130	1A	1A	1A	1A
Total Acid Number, mg KOH/g	ASTM D974	0.04	0.01	0.03	0.03

*Applies to packaged goods only.

Due to continual product research and development, the information contained herein is subject to change without notification.

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