

# Castrol Hyspin Spindle Oil E 5

Spindle Oil

## Description

The Castrol Hyspin™ Spindle Oil range is based upon highly refined mineral oil enhanced with rust and oxidation inhibitors and formulated especially for the lubrication of high speed and precision machine tool spindle bearings.

## Application

Castrol Hyspin Spindle Oil has been specially formulated to provide outstanding protection against rust and oxidation while demonstrating good lubricity. These types of oils are also referred to as "R and O" oils.

Castrol Hyspin Spindle Oils are designed for use in all types of spindle bearings, including high-speed spindle bearings. Spindle E5 has an additional oiliness agent for enhanced lubricity.

The Hyspin Spindle Oil is fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluorinated (e.g. Viton) polymers.

Hyspin Spindle Oil is classified as follows:

DIN 51502 classification – HL

ISO 6743/4 - Hydraulic Oils Type HL

ISO 6743/2 – Spindle Oils Type FC

Hyspin Spindle oil meets or exceeds the following industry specifications:

Cincinnati Lamb (formerly Milacron) P-45 (FC-22) - Spindle Oil 22

Cincinnati Lamb (formerly Milacron) P-62 (FC-10) - Spindle Oil 10

Cincinnati Lamb (formerly Milacron) P-65 (FC-2) - Spindle Oil 2

## Advantages

- Good thermal and oxidative stability leads to longer operating life, reduction in lubricant costs and minimises deposit formation giving a cleaner system.
- Good protection of yellow metal and ferrous components helps maintain and prolong equipment life.
- Excellent water separation and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability.
- Controlled foaming to provide consistent lubrication under the high agitation conditions found in spindle bearings.

## Typical Characteristics

Test	Method	Units	2	E5	10	22
ISO Viscosity Grade	-	-	2	5	10	22
Density @ 15°C/60°F	ISO 12185/ASTM D4052	-	0.78	0.84	0.86	0.87
K.V. @ 40°C/104°F	ISO 3104/ASTM D445	mm <sup>2</sup> /s	2	5	10	22
K.V. @ 100°C/212°F	ISO 3104/ASTM D445	mm <sup>2</sup> /s	0.95	1.9	2.6	4.3
Viscosity Index	ISO 2909/ASTM 2270	-	-	-	86	100
Pour Point	ISO 3016/ASTM D97	°C/°F	<-40/<-40	-39/-38	-39/-38	-30/-22
Flash Point, COC	ISO 2592/ASTM D92	°C/°F	91/196	114/237	154/309	177/351

Subject to usual manufacturing tolerances.

Notes: For viscosities above 22 cSt use the relevant R&O Hydraulic Oil (Castrol Hyspin VG range)

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