



Product Data

Castrol Hyspin® Spindle Oil HS

High Speed Spindle Oil

Description

Castrol Hyspin Spindle Oil HS is a highly refined oil for high speed spindles using oil jet lubricant systems. It is designed for applications where spindles operate in the 15,000 - 30,000 rpm range. Hyspin Spindle Oil HS is formulated with sulfur, phosphorous and zinc additives. This antiwear and extreme pressure package readily transfers heat to prevent spindle growth and run-out.

Application

Hyspin Spindle Oil HS was evaluated for the following:

- Freeze Thaw Thermal Stability
- Elastometer Compatibility
- Oxidation Stability
- Demulsification Capacity
- Foam Characteristics
- Shear Stability

In dynamic tribology testing, the wear characteristics of Hyspin Spindle Oil HS were determined by:

- Four-ball Test
- Falex Pin and Vee Block Test
- Timken Test
- SRV Test

It was determined that Hyspin Spindle Oil HS meets or exceeds the performance of existing spindle fluids. Specific details are available through your Castrol Sales Engineer.

Advantages

- Maintains close viscosity index and tolerances through extended use.
- Rejects water emulsification thereby eliminating residues and corrosive build-up.
- Low acid number indicates resistance to corrosion.
- Filters to five microns to provide a clean lubricant.
- Sold and serviced in North America through Castrol Sales Engineers and Distributors.
- Alternative to expensive high speed spindle fluids.

Characteristics

| | Unit | Test Method | Value |
|--------------------------------|---------|-------------|-------------------------|
| Appearance | - | Visual | Clear Water-white Fluid |
| API Gravity | - | - | 52.27° |
| Specific Gravity @ 60°F (16°C) | - | ASTM D-1298 | 0.76 – 0.79 |
| Viscosity @ 40°C (104°F), cSt | - | ASTM D-445 | 1.9 – 2.1 |
| Viscosity @ 100°C (212°F), cSt | - | ASTM D-445 | 0.95 |
| Bulk Density | lbs/gal | - | 6.41 |
| Flash Point, COC | °F/°C | ASTM D-97 | 200°F (93.33°C) |
| Copper Corrosion | - | - | 1a |

Additional Information

Hyspin Spindle Oil HS is compatible with Kyoseki Hi-speed spindle oil. Contact your Castrol Sales Engineer for change-over procedures or for questions regarding compatibility.

Machine Tools Approval

Hyspin Spindle Oils HS is recommended for initial fills by Mazak.

Castrol Hyspin Spindle Oil HS
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