



GLOBALSYNTH

GLOBALSYNTH LUBRICANTS PVT LTD

An ISO 9001 : 2015 CERTIFIED COMPANY

*Globalsynth
High Speed
Superior Spindle Oils*



Industrial Lubricant technology expert

CIN - U23209DL2021PTC382265



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Spintek Superior Spindle Oils

Globalsynth Spindle Oil is a high-quality spindle bearing oil developed for the lubrication of high-speed spindle bearings in machine tools and textile machinery.

Globalsynth Spindle Oil is formulated with an oiliness agent and/or an ashless anti-wear additive plus select inhibitors to provide excellent lubricity and wear protection, protection against rust and corrosion, and resistance to foaming. It has excellent oxidation resistance and thermal stability at high temperatures to minimize deposits and provide long service life. It has excellent water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup. It is non-staining for use in textile equipment.

Globalsynth Spindle Oils ISO VG 2, 6, 10, & 22 are recommended primarily for use in highspeed CNC milling machines, precision grinders, and other machine tools. They meet the performance requirements of leading manufacturers of high-speed CNC milling machines. They also may be used in low-pressure hydraulic systems that require a low viscosity oil.

Globalsynth Spindle Oil ISO VG 15 is recommended for lubrication of high-speed needle and spindle bearings in agricultural and textile machinery, such as spinning machines.

APPLICATION:

- ◆ Horizontal, vertical, bed-type, knee-type, and turret-type CNC milling machines.
- ◆ High-speed needle and spindle bearings in industrial, agricultural, and textile machinery.
- ◆ Low-pressure hydraulic systems that require a low-viscosity oil.

FEATURES/BENEFITS

- ◆ Excellent oxidation resistance and thermal stability
- ◆ Long service life for reduced operating and maintenance costs
- ◆ Protects against wear
- ◆ Excellent oiliness characteristics (ISO VG 2 & 15)
- ◆ Protects against rust and corrosion
- ◆ Excellent water-separating properties
- ◆ Excellent low-temperature performance
- ◆ Clear color
- ◆ Non-staining
- ◆ Quick foam release



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TYPICAL PROPERTIES

ISO Grade	2	6	10	12	15	22
Specific Gravity @ 60°F	0.806	0.833	0.848	0.849	0.852	0.856
Density, lbs/gal @ 60°F	6.71	6.94	7.06	7.07	7.09	7.13
Color, ASTM D1500	0.5	0.5	0.5	0.5	0.5	0.5
Flash Point (COC), °C	99	150	171	175	180	188
Pour Point, °C (°F)	-40	-40	-36	-36	-36	-37
Viscosity						
cSt @ 40°C	2.1	5.1	10.0	12.0	15.1	22.1
cSt @ 100°C	1.0	1.7	2.6	2.8	3.4	4.4
SUS @ 100°F	33	44	61	72	83	115
SUS @ 210°F	29	32	35	36	38	41
Acid Number, ASTM D664, mg KOH/g	0.04	0.04	0.03	0.01	0.01	0.03
Copper Corrosion, ASTM D130	1a	1a	1a	1a	1a	1a
Four-Ball Wear, ASTM D4172, Scar Diameter, mm	0.52	0.49	0.42	-	-	0.41
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass	Pass	Pass

The values quoted are typical of normal production. They do not constitute a specification.





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