



PRODUCT DATA SHEET

Havens Knitting/Spindle Oil Series

DESCRIPTION

Havens Knitting Oil Series – High Quality Machine Tool Spindle Lubricant

Havens Knitting Oil series are a range of high quality, low viscosity oils for high speed machine tool spindles and certain hydraulic applications. They are manufactured from low viscosity solvent refined mineral oils with selected additives to enhance performance. These products offer good hydraulic performance, protection against wear, rust, and corrosion and are resistant to oxidation.

APPLICATIONS

Every industrial lubricant recommendation should be done after an expert consultation on the application in question. Only then the best lubricant can be selected.

Havens Knitting Oil Series find their main application in lubrication of high-speed machine tool spindles.

TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	Havens Knitting/Spindle Oil Series		
ISO Viscosity Grade	-	-	10	222	322
Density at 15 °C, kg/m3	-	kg/m3	0.82-88	0.82-88	0.82-88
Flash point Cleveland, °C	ASTM D92	°C	≥150	≥150	≥150
Kinematic viscosity at 40 °C, mm2/s	ASTM D445	°C, mm2/s	10	22	32
Kinematic viscosity at 100 °C, mm2/s	ASTM D445	°C, mm2/s	2.3	4.4	5.4
Viscosity Index	ASTM D2270	-	107	107	105
Pour point, °C	ASTM D97	°C	-25	-25	-25
Copper Corrosion	ASTM D130	-	1a	1a	1a
Emulsion Test	ASTM D1401	minutes	5	5	5

The values shown above are typical values at the date of publication. Havens Knitting/Spindle Oil Series reserves the right to change these typical values without prior notice.

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.havenslubricants.com.