



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
Lubricants



Agricultural
Lubricants



Cleaning &
Maintenance



Greases &
Pastes



Foodsafe
Lubricants



Heritage Oils



Lubrication
Equipment



Metalworking
Fluids



Spindle Oils

High Quality Machine Tool Spindle Lubricants

Product Code: A8S, A8T, A8U

Product Description

Pennine Spindle Oils R10, VG5, and VG3 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

These products find their main application in lubrication of high speed machine tool spindles. Spindle Oil R10 is suitable for most spindle applications whilst Spindle Oils VG5 and VG3 are recommended for higher speed and tighter clearance applications and Spindle Oil VG3 is recommended for the so called "Zero Clearance" type of spindle bearing. Other uses include hydraulic applications requiring very low viscosity oils where Spindle Oil R10 may be used.

Typical Test Data

Spindle Oil	A8S R10	A8T VG5	A8U VG3
ISO VG	10	5	3
K.V. @ 40°C (cSt)	10	5	3
Density @ 60°F	0.85	0.85	0.84
Flash Point (°C)	153	132	128
Pour Point (°C)	-30	-21	-21



Certificate Number: 9480
ISO 9001



Pennine Lubricants Limited Company reg no. 3510091



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Availability

Pennine Spindle Oils are available in bulk, 1000 litre IBC's, 205 litre barrels, 25 litre drums and 5 litre plastic bottles.

Storage

Barrels of lubricant should always be stored in such a way that they will prevent the ingress of water when stored in the open.

Health and Safety

Please refer to the relevant Health and Safety Data Sheet, a copy of which is freely available to all our customers.

Data represented is typical of that obtained with normal production tolerances and does not constitute a specification. The policy of Pennine Lubricants is one of continual improvement, we therefore reserve the right to change specifications without notice.



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