



Advanced Lubricants Technology

## PRODUCT INFORMATION

### PERENNIAL SPINTEX SERIES ( PREMIUM SPINDLE BEARING OILS )

#### DESCRIPTION

PERENNIAL Spintex series are a family of high quality low viscosity lubricants. They are formulated from high grade stock oils and each one is specially fortified with additives to make it unsurpassed in its particular field of service. They are all light coloured oils and have excellent film strength characteristics. They are formulated with a new generated advance technology of **environmentally-friendly, zinc free and ashless additives.**

The PERENNIAL Spintex Oils are recommended mainly for machine tool spindle lubrication and hydraulic systems and the other recommended principally for the lubrication of textile machinery. All the PERENNIAL Spintex Oils can be applied to all the usual methods, including automatic oiling systems and air mist techniques.

#### APPLICATIION

The group of high quality low viscosity oils is recommended for the lubrication of high speed machine tool spindles. PERENNIAL Spintex Oils No. 3 is recommended for the 'zero clearance' type of spindle bearing which operates with extremely close clearances- which operates with may be no more than 0.0001" per inch of arbor diameter. The majority of sleeve type spindle bearings have greater clearances and for these PERENNIAL Spintex Oils are being used satisfactorily. Choice of viscosity depends upon the relationship between clearance and spindle speed. High speed and close clearance require PERENNIAL Spintex Oils No. 3 – slower speed and wider clearance require PERENNIAL Spintex Oils No. 10.

PERENNIAL Spintex Oils No. 5,10,15,22 are also recommended foe use in hydraulic systems. All have excellent chemical stability, resistance to oxidation and the formation of deleterious products and contain a defoamant. They have a high viscosity index and separate readily from water.

These oils are also specially designed for use in textile machinery and contain additives which reduce the incidence of rust and metallic wear. They ensure long service life, freedom from sludge and deposits, and minimum power consumption. PERENNIAL Spintex also have good demulsibility to ensure freedom from the formation of emulsions induced by the moisture always present in high humidity spinning rooms. These oils are also used in high speed winding machinery and all other types of textile plant where high speeds and fine clearances are involved.

#### TYPICAL INSPECTION TESTS

Grade, ISO VG	3	5	10	15	22	32
Density, g/ml @ 15°C	0.790	0.826	0.866	0.876	0.880	0.883
Color ASTM	L1.0	L1.0	L1.0	L2.0	L2.0	L2.5
Flash Point, COC, °C	125	135	155	170	174	225
Pour Point, °C	-48	-47	-47	-47	-48	-44
Viscosity, cSt @ 40°C	2.8	4.8	9.5	14.5	21.5	31.5
CSt @ 100°C	-	2.0	2.5	3.9	6.1	7.5
Neutralization No, mgKOH/g	0.3	0.3	0.3	0.3	0.3	0.3
FZG Gear Test DIN 51354 A/8.3/90	12	12	12	12	12	12
Vickers vane pump test DIN 51389 Part 2						
4 Ball Test DIN 51350	0.44	0.44	0.44	0.44	0.44	0.44
Demulsibility ASTM D1401	8	8	8	8	8	8
Foam Test, ASTM	Pass	Pass	Pass	Pass	Pass	Pass
Copper Strip Corrosion 3Hrs @ 100°C	1a	1a	1a	1a	1a	1a

The above details is typical and does not constitute a contract in terms of properties