



**LUBRICANTS™**

**POWER TO PERFORM™**

## **CYNDOL GRADES**

### **SPINDLE OILS**

#### **SPECIAL FEATURES**

CYNDOL grades are recommended for cylinder lubrication of steam engines. They are formulated from specially treated high viscosity index, heavy viscosity base stocks having enhanced lubricating properties and thermal stability. They have excellent oiliness and film strength characteristic, maximum resistance to washing effect of moisture and excellent load carrying ability. CYNDOL TC grades are compounded with special fatty oil and contain adhesive agent.

#### **SPECIFICATIONS**

The grades meet IPSS 1-09-010

#### **APPLICATION AREA**

CYNDOL grades are eminently suitable for cylinder lubrication of steam engines using highly super heated steam. They grades are also widely used in large slow moving industrial gears and plain bearings.

The TC grades are recommended for steam engines operating under wet saturated steam conditions. These are also used in calender bearings and sugar mill roller bearings.

They are especially suitable for the lubrication of worm gears.

CYNDOL 1000 and 1500 are also used as tempering and wire drawing applications with satisfactory results.

#### **PHYSICO-CHEMICAL PROPERTIES**

	CYNDOL					
	680	1000	1500	TC460	TC530	TC680
Flash Point, COC, °C, Min	254	292	306	248	240	270
Viscosity, Kinematic, cSt, @ 40°C, Avg.	680	1000	1500	460	530	680
Viscosity Index	80	80	85	90	90	85
Pour Point, °C, Max.	12	9	3	6	6	6
Saponification Number mg KOH/g of Oil	-	-	-	11	11	11

**AUTHORISED CFA / ILD / LD**

PANVEL INDUSTRIAL FASTNERS PVT LTD

Plot No 29 to 33 & 37, Jawahar Co-operative Industrial Estate, Kamothe, Navi Mumbai - 410209

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## **CYNDOL GRADES SPINDLE OILS**

### **PHYSICO-CHEMICAL PROPERTIES**

Appearance	Dark
Copper Strip, Corrosion At 100°C For 3 Hours	1
Density @ 29.5°C, g/cc	0.895
Flash Point, COC, °C	>260
Pour Point, °C	<6
Saponification Value, mg KOH / g	10-12
Kin. Viscosity @ 40°C, cSt	750-850
Kin. Viscosity @ 100°C, cSt	44
Viscosity Index	>90

### **PERFORMANCE BENEFITS**

- Excellent oiliness and film strength
- High viscosity index
- Suitable for use in wet and saturated steam engines
- Resists the washing effect of moisture in steam engine cylinders

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