

# TECHNICAL DATA SHEET



## NANOL® POWER+ E



### PRODUCT DESCRIPTION

Nanol® is a patented discovery and represents an innovative lubricant additive, which significantly reduces friction and wear of surfaces due to a thin protective layer formed by copper nanoparticles. Nanol® POWER+ E is optimized for Power generation units.

The unique action behind the Nanol® lubrication technology lies within the precise amount of perfectly distributed copper nanoparticles, constructing a physical layer of copper atoms only on the surfaces of friction and wear.

### CUSTOMER BENEFITS

Nanol® delivers value by

- Improving machinery efficiency
- Reducing fuel and lubrication oil consumption
- Reducing wear
- Reducing emissions
- Prolonging lubrication oil exchange intervals
- Prolonging lifetime of components

### FEATURES

The copper layer lowers friction, protects the working surfaces from wear and corrosion and improves heat transfer from the friction zone. Nanol® works well in both large- and small-scale engines as well as in other applications where heavy friction occurs and the need of lubricants is inevitable.

### TREATMENT RATIO

Add 3% (30 ml per liter of oil) of the Nanol® POWER+ E lubricant additive to engine oil. The additive shall preferably be added to warm engine oil (T > 50°C). The product is not to be blended into any glycol-based oils and the stated dosage shall not be exceeded.

### TECHNICAL DATA

PROPERTIES	NANOL® M [10.0-T]	UNIT	TEST METHOD
Relative density @20°C	865	kg/m <sup>3</sup>	In-house
Kinematic viscosity @40°C	30.74	cSt	ASTM D445
Kinematic viscosity @100°C	5.98	cSt	ASTM D445
Viscosity index	144	-	-
Flash point, COC	194	°C	-
Base number	1.70	mgKOH/g	ASTM D92
Water solubility	Insoluble		ASTM D664
Color	Dark blue-green		

### STORAGE AND HANDLING

Do not expose to open flames, sparks or other heat sources. For long-term storage, store product in cool and ventilated areas. Keep containers well sealed when not using the product. Areas subjected to spillage may become slippery.

Product shelf life is 5 years from the date of purchase.