

# Ultra Plus Open Gear Lubricant

PETRON GEAR SHIELD SYNTHETIC



## EXTRA PROTECTION

## STANDARD APPLICATION



Ultra Plus Open Gear Lubricant is heavy-duty synthetic fluids designed to provide outstanding protection for high-load, heavy-shock applications, such as large shrouded open gears used in the thermal power plants, cement, mining, mineral processing and cement industries especially lubricant for large girth gear drives in thermal power plant.

## PERFORMANCE & FEATURES

Ultra Plus Open Gear Lubricant is a special clear lubricant range designed for lubrication of large open gears. They offer an excellent high-pressure resistance with and extraordinary outstanding wear protection. They are free of bitumen, solvents, chlorine and solid lubricants.

Ultra Plus Open Gear Lubricant helps performing open gear inspection due to its clear appearance. Pitting, micropitting and gear damage is easy to detect.

Ultra Plus Open Gear Lubricant provides an exceptional surface adherence, creating a thick and stable lubrication film even when low lubricant amount is used, therefore, it always ensures a reliable running operation of the gear drive.

Ultra Plus Open Gear Lubricant provides excellent protection for new and used surfaces. Slowly smooths rough surfaces improving contact profile and reducing contact pressure.

Ultra Plus Open Gear Lubricant is a full-service open gear lubrication package in a single product, from priming through operational lubrication.

Ultra Plus Open Gear Lubricant provides exceptional film formation capabilities ensuring that components are fully lubricated in the hydrodynamic or full fluid film mode.

Ultra Plus Open Gear Lubricant meets or exceeds the open gear

used in mills, kilns, driers, pelletizers, agglomerators and similar equipment of the thermal power plants, cement.

## BENEFITS

- Excellent wear protection due to formation of an extreme thick lubricating film
- Very high load carrying capacity due to a special high performance additive combination
- Extreme high adhesive power on metal surfaces
- Noise and vibration reducing properties resulting from the high lubricating film thickness
- Reduced consumption rate in comparison to conventional graphite based open gear lubricants possible
- Free of bituminous substances and toxic heavy metals
- Pumps freely down to 0°F (-18°C). For colder applications heating may be required

## APPLICATION

Ultra Plus Open Gear Lubricant can be applied by high pressure spray systems but, immersion or circulation lubrication is possible too. It is suggested for heavy duty gear drives working at low speeds. This range is strongly recommended in cement, mining, chemical and power plants.

## Typical physical characteristics

Products Article-No		301688	301193	301689
Base oil		Synthetic oil		
Viscosity at 40°C, cSt	ASTM D445 – DIN 51561	10,859	14,751	28,204
Viscosity at 100°C, cSt		473	600	1,600
Viscosity index	ASTM D2270	200	200	200
Flash point, °C	ASTM D92	>220	>220	>220
Pour point, °C	ASTM D97	-18	-18	-18
Density at 20°C	ASTM D445	0.89	0.89	0.89
Four Ball Test, weld load (kg)	ASTM D4172	980	980	980
Timken EP Test, OK Load, kg (lb)	ASTM D2782	40.8 (90)	40.8 (90)	40.8 (90)
FZG A/2.76/50, Scuffing Load Stage Work Related Weight Loss, mg/kWh	DIN 51354	>12 <0.2	>12 <0.2	>12 <0.2
Operation temperature °C			-5 to +160	-5 to +160
Lincoln Ventmeter 600 psi	Licoln VE-1	20°F@ ≤ 30 sec	20°F@ ≤ 30 sec	0°F@ 30 sec

These characteristics are typical of current production.

## HEALTH, SAFETY & ENVIRONMENT

### Health, Safety

EA Lubricant is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://ea-lubricant.com>

### Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

### Additional Information

Advice on applications not covered here may be obtained from your EA representative.



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