# **TECHNICAL DATA SHEET**



PROTEAN GEAR 220 **TF9699** 

# **Description**

PROTEAN Gear 220 is a H1 registered semi-synthetic gear oil, suitable for the lubrication of gearboxes and reduction units, and approved for use within food and beverage processing environments. PROTEAN Gear 220 can also be used as a chain lubricant where temperatures do not exceed 140°C (continuous) or 160°C (intermittent).

## **Benefits & Features**

- · Extremely good oxidation stability which extends lubricant life
- Unaffected by water demulsibility ensures total separation of water from oil
- Adhesive additives coat gears and provide anti-wear protection at start-up
- Semi-synthetic oil with high Viscosity Index ensures reduced viscosity change with temperature increase

#### For chain applications

- · Penetrates to the links and pins reducing wear and extending chain life
- Adhesive additives ensure non-drip, no fling thus providing lasting lubrication
- Excellent adhesive characteristics ensures a high degree of water resistance and protects parts from corrosion even in the presence of alkali materials commonly associated with the food industry
- · Extremely wide temperature range ensures maximum application versatility

## **Directions for Use**

**For gearboxes and reduction units:** Ensure that the gearbox manufacturers' lubricant rating corresponds to using the ISO grade recommended. For optimum performance, drain gearbox of previous lubricant.

**For drive and conveyor chains:** Apply sparingly by brush or oil can as required. Can also be applied automatically using a central drip feed system.

# **Technical Data**

Category: H1 – Lubricants with incidental contact

NSF Registration No: 162771

Allergens: Does not contain allergens, genetically

modified ingredients, nut oil or derivatives.

Appearance: Clear adhesive oil

Base Oil: Blend of semi-synthetic oils Kinematic Viscosity (ASTM4451): 220 at 40°C, 19.6 @ 100°C

Viscosity Index: 101 Pour Point: -15°C 0.87 Relative Density: Flash Point (COC): >200°C Demulsibility (ASTM D1401) 30 min: 40-37-3 Foaming (ASTM D892): Nil Copper Corrosion (ASTM D130): 1h 12 FZG Gear Test Stage: Pour Point °C: -15 Point Open Cup °C: +230

Solubility: Insoluble in water
Operating Temperature Range: -15 to +140°C

Pack Sizes: 5 Ltr (TF9605) 20 Ltr (TF9620) 205 Ltr

(TF9699) 1000 Ltr (TF9600)

GEAR 220
NSF:HI registered
Semi-synthetic
food-grade oil
TF9699
NSE
Essential Nutrition for Industry

The content of this data sheet is given in good faith but without warranty.

