

#### Description

PROTEAN Gear 460 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 460 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:	162773
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):	460 at 40°C, 32.8 @ 100°C
Viscosity Index:	104
Pour Point:	-15°C
Demulsibility (ASTM D1401) 30 min:	40-37-3
Foaming (ASTM D892):	Nil
Copper Corrosion (ASTM D130):	1b
FZG Gear Test Stage:	12
Flash Point Open Cup °C:	230
Relative Density:	0.87
Drop Point (IP132):	>200°C
Solubility:	Insoluble in water
Operating Temperature Range:	140°C (continuous) or 160°C (intermittent)
Pack Sizes:	5 Ltr (TF9805) 20 Ltr (TF9820) 205 Ltr (TF9899) 1000 Ltr (TF9800)



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