



# PRODUCT DATA SHEET



## PRODUCT NAME/VISCOSITIES: MILLGEAR SY RANGE

Product No	
Issue No.	2
Issue Date	04/12/14

### DESCRIPTION:

The Millgear SY range are fully synthetic, polyalkylene glycol (PAG) extreme pressure industrial gear lubricants.

### APPLICATION:

Use as received for a wide range of industrial gears, oven conveyor chains, tenters, stenters and applications with elevated temperatures.

**Note:** This lubricant should not be mixed with mineral oils, when changing over from mineral based products, flush the system with the suitable Millgear SY product.

### USER BENEFITS:

- Performs at elevated temperatures, typically in excess of 200°C.
- High viscosity index imparts low start up drag whilst maintaining optimum viscosity at operating temperature.
- Low oxidation leads to extended oil life, typically 10,000 hours @ 100°C.
- Excellent Corrosion protection of yellow and ferrous metals.
- David Brown type G general approval.

### PERFORMANCE PROFILE:

Millgear SY	150	220	320	460	680
EP/Load Carrying	FZG load stage 12	FZG load stage 12	FZG load stage 12	FZG load stage 12	FZG load stage 12
Timkin OK Load lbs	27	27	35	35	
Weld Load Kg	>160	>160	>160	>160	
Copper Strip Corrosion	1b	1a	1b	1a	1b

### Rust Prevention

Distilled Water	Pass	Pass	Pass	Pass	Pass
Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass





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## TYPICAL CHARACTERISTICS:

Millgear SY	150	220	320	460	680
Specific Gravity @ 15°C	0.994	1.006	1.005	1.007	1.076
Kinematic Viscosity @ 100°C	21cSt	31.8cSt	44.8cSt	63.7cSt	112.4
Kinematic Viscosity @ 40°C	133cSt	237cSt	325cSt	433cSt	680cSt
Viscosity Index	184	178	197	222	265
Pour Point (°C)	-30	-30	-30	-28	-33
Flash Point (°C)	191	231	225	225	265
Neutralisation Number mg KOH/g (IP 139)	0.55	0.6	0.6	0.65	
Health & Safety/Product Code	5171	5327	5501	5380	7768

## HEALTH AND SAFETY:

Health and Safety Data Sheet numbers above relate to the products listed. When used for the purpose recommended and with due regard to the appropriate Health and Safety Data, the product should cause no concern. If in doubt, consult with Millers Oils Technical Department.

