

TECHNICAL DATA SHEET



Product code: see below table **Sector:** Industrial **Issue No:** 5 **Issue Date:** 28/10/24

MILLGEAR SY RANGE

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.

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

Rust Prevention

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

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Typical Characteristics

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

Technical & Health and Safety

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For H&S info or SDS, please visit our website www.millersoils.co.uk