

# SYN GEAR 7000 Series

## Description

TACBECON SYN GEAR 7000 series comprises synthetic hydrocarbon (PAO) gear and bearing oils. The base oil has excellent thermo-oxidative stability and operates well in a wide operating temperature range.

The oils are formulated with additives that also provide anti-corrosion and anti-wear resistance. It does not have any adverse effect on soft metals such as copper alloys.

These oils have better low temperature fluidity, higher flash point and lower start-up torque compared to conventional gear and bearing oils.

## Applications

TACBECON SYN GEAR 7000 series is applicable as a circulating lubricant for all enclosed gear drives and anti-friction bearings.

Types of gear include the spur, helical, conical, hypoid and worm gears.

It is also used as impregnating oil for sintered bearings and bushings.

## Compatibility

TACBECON SYN GEAR 7000 series will not have compatibility issues with paints, seals, gaskets and hoses. A direct switch-over from mineral oils is possible without special precautions of system flushing required.

## Product Features

- Synthetic hydrocarbon (PAO) gear and bearing lubricant
- Excellent oxidation stability
- Compatible with mineral oils
- Wide operating temperature
- Good low temperature fluidity

## Cautions

- Do not mix with other lubricants (unless stated)
- Fill oil to required level
- Handle hot oil with care
- Drain used oil completely during oil change

## Packaging Size

18-litres    Pail  
208-litres    Drum

Typical Property	Test Method	SYN GEAR				
		7032	7046	7068	7100	7150
ISO viscosity grade	ISO 3448	32	46	68	100	150
Oil viscosity @40°C, cSt	ASTM D 445	30	43.2	64.2	95.8	154
Oil viscosity @100°C, cSt	ASTM D 445	5.7	7.7	10.2	13.4	21
Viscosity index	ASTM D 2270	135	150	143	141	153
Specific gravity @ 15.6°C	ASTM D 4052	0.82	0.82	0.82	0.82	0.83
Flash point, °C min	ASTM D 92	231	235	242	250	248
Pour point, °C	ASTM D 97	-58	-50	-50	-42	-42
Foaming – Seq. I, ml/ ml	ASTM D 892	0/0	0/0	0/0	0/0	0/0
Copper corrosion, 24hrs@100°C	ASTM D 130	1a	1a	1a	1a	1a
Fourball weld load, kg min	ASTM D 2783	250	250	250	250	250
Fourball wear scar, mm	ASTM D 4172	0.45	0.45	0.45	0.45	0.45
Timken OK load, lbs.	ASTM D 2782	>40	>40	>40	>40	>40

The product properties are typical of those obtained with normal production tolerances and do not constitute a specification. The information contained herein is subject to change without notification. Before using any chemical, please read its label and Material Safety Data Sheet.

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Typical Property	Test Method	SYN GEAR				
		7220	7320	7460	7680	7999
ISO viscosity grade	ISO 3448	220	320	460	680	1000
Oil viscosity @40°C, cSt	ASTM D 445	219	319.1	466	659	1076
Oil viscosity @100°C, cSt	ASTM D 445	26.5	35.2	46	64	86
Viscosity index	ASTM D 2270	159	156	157	164	164
Specific gravity @15.6°C	ASTM D 4052	0.85	0.85	0.86	0.86	0.86
Flash point, °C min	ASTM D 92	259	239	247	240	233
Pour point, °C	ASTM D 97	-42	-42	-41	-41	-40
Foaming – Seq. I, ml/ml	ASTM D 892	0/0	0/0	0/0	0/0	0/0
Copper corrosion, 24hrs@100°C	ASTM D 130	1a	1a	1a	1a	1a
Fourball weld load, kg min	ASTM D 2783	250	250	250	250	250
Fourball wear scar, mm	ASTM D 4172	0.36	0.36	0.36	0.36	0.31
Timken OK load, lbs.	ASTM D 2782	>50	>50	>50	>50	>50

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