

# TM Series

Synthetic blend air compressors



## Your benefits at a glance

- Improved rust and oxidation protection versus general or multi-purpose R&O circulation oils
- Reduced lubricant consumption - extended drain intervals and lower vapor pressures reduce lubricant consumption
- Reduced maintenance - SYNTHOLATE reduces carbon and varnish formation thus extending valve life and the time interval overhauls
- Eliminates recompression - SYNTHOLATE keeps the valves clean and eliminates the primary cause of recompression
- Reduced power consumption - elimination of recompression and reduced coefficient of friction result in less power consumption per unit of compression
- Improved safety - higher flash points provide a greater margin of safety in air compression

## Your requirements - our solution

The Summit TM Series is formulated from highly refined hydrocracked base stocks and the unique additive SYNTHOLATE inhibits the formation of varnish and carbon and provides superior thermal and oxidative stability. Utilizing the superior petroleum base stocks fortified with SYNTHOLATE extends the life of the Summit TM Series compared to that of conventional mineral oils.

## Material safety data sheets

Material safety data sheets can be requested via our website <https://www.klsummit.com>. You may also obtain them through your contact person at Summit Lubrication.

Characteristics	TM-10	TM-15	TM-20	TM-30
Article number	340177	340178	340179	340180
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 54°C	41-39-0 (15) ml (min)	41-39-0 (15) ml (min)	42-38-0 (15) ml (min)	-
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 82°C	-	-	-	40-40-0 (15) ml (min)
Density	0.864 g/cm <sup>3</sup>	-	-	-
Density, 20°C	approx. 0.866 g/cm <sup>3</sup>	approx. 0.866 g/cm <sup>3</sup>	approx. 0.871 g/cm <sup>3</sup>	approx. 0.877 g/cm <sup>3</sup>
Flash point, ASTM D92, Cleveland open cup	≥ 210 °C	≥ 220 °C	≥ 220 °C	≥ 250 °C
Foam test, ISO 6247 / ASTM D892, 24°C, sequence I	approx. 0/0 ml	approx. 0/0 ml	approx. 0/0 ml	approx. 0/0 ml
Foam test, ISO 6247 / ASTM D892, 24°C, sequence III	approx. 0/0 ml	approx. 0/0 ml	approx. 0/0 ml	approx. 0/0 ml
Foam test, ISO 6247 / ASTM D892, 93.5°C, sequence II	approx. 0/0 ml	approx. 0/0 ml	approx. 10/0 ml	approx. 0/0 ml
ISO viscosity grade, DIN ISO 3448, ISO VG	32	46	68	100
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 5.5 mm <sup>2</sup> /s	approx. 6.7 mm <sup>2</sup> /s	approx. 8.5 mm <sup>2</sup> /s	approx. 11.0 mm <sup>2</sup> /s

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Characteristics	TM-10	TM-15	TM-20	TM-30
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 32 mm <sup>2</sup> /s	approx. 44 mm <sup>2</sup> /s	approx. 65 mm <sup>2</sup> /s	approx. 100 mm <sup>2</sup> /s
Viscosity index, ASTM D2270	approx. 109	approx. 104	approx. 103	approx. 96
Copper corrosion, ASTM D130, 3 h, 100°C	1 - 100 - 3 corrosion degree	1 - 100 - 3 corrosion degree	1 - 100 - 3 corrosion degree	1 - 100 - 3 corrosion degree
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -34 °C	approx. -35 °C	approx. -32 °C	approx. -33 °C
Four-ball tester: wear characteristics, ASTM D4172, method: B, 1200 min <sup>-1</sup> / 40 kgf, 60 min, 75°C	approx. 0.60 mm	approx. 0.60 mm	approx. 0.60 mm	approx. 0.60 mm
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	36 months	36 months	36 months

Characteristics	TM-40
Article number	340181
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 54°C	-
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 82°C	40-40-0 (20) ml (min)
Density	-
Density, 20°C	approx. 0.880 g/cm <sup>3</sup>
Flash point, ASTM D92, Cleveland open cup	≥ 250 °C
Foam test, ISO 6247 / ASTM D892, 24°C, sequence I	approx. 0/0 ml
Foam test, ISO 6247 / ASTM D892, 24°C, sequence III	approx. 0/0 ml
Foam test, ISO 6247 / ASTM D892, 93.5°C, sequence II	approx. 0/0 ml
ISO viscosity grade, DIN ISO 3448, ISO VG	150
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 14.4 mm <sup>2</sup> /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 150 mm <sup>2</sup> /s
Viscosity index, ASTM D2270	approx. 97
Copper corrosion, ASTM D130, 3 h, 100°C	1 - 100 - 3 corrosion degree
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -34 °C

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Characteristics	TM-40
Four-ball tester: wear characteristics, ASTM D4172, method: B, 1200 min <sup>-1</sup> / 40 kgf, 60 min, 75°C	approx. 0.60 mm
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

## Summit Lubrication

Your expert in specialty lubricants. Since 1982, we have partnered with you to bring you the right solution and advanced lubrication technologies. With over 500 products, from air and gas compressor oils to refrigeration oils, we develop top-of-the-line products tailored to your specific needs. Your success is our success.

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