

Product	Sinopec VT Synthetic Transmission Gear Oil
Summary	Product description SINOPEC VT Synthetic Transmission Gear Oil is formulated with high-quality poly-alpha-olefin (PAO) base oil and an advanced multi-functional additive package, meeting the extended long drain interval requirements. The products can be used in gearboxes requiring high viscosity index, excellent high/low temperature performance, outstanding load carrying capacity, and heavy duty transmission under extreme pressure or shock load. With excellent product performance, they can prolong transmission system life, improve transmission efficiency and fuel efficiency. Available in SAE viscosity grades: 75W-90, 80W-140, etc.

Applications

SINOPEC VT Synthetic Transmission Gear Oil is suitable for using in:

- Driving gear units in high speed trains, trams, Light Rail Vehicle (LRV), etc.
- Heavy duty manual transmission, transfer cases, differentials, final gear drives in on-highway vehicles including light trucks, heavy duty trucks, buses and coaches, and special vehicles, and where API GL-5, and MT-1 specification lubricants are required.
- Transmission systems in off-highway vehicles including construction machineries, dump trucks, tractors, and where API GL-5 specification lubricants are required.

Features and benefits

- Outstanding Extreme Pressure (EP) protection against low speed/high torque wear, spalling, and against high speed scoring. Increased load-carrying capability. Reduce maintenance costs and prolong equipment life
- Excellent thermal and oxidation stability, ensures the oil do not break down or form sludge or deposits at high temperatures, extending gear and bearing life from minimal deposits.
- High viscosity index and very low pour point provide outstanding high and low temperature performance and ensure excellent protection. Reduce wear and ease of start-up, even in arctic conditions
- Excellent shear stability, Retains viscosity and film strength under severe operating conditions to prevent wear.
- Very good anticorrosion properties protect against rust and corrosion, and extend component life.

Product Data Sheet

Typical data

SAE viscosity grade	75W-90	80W-140
Kinematic viscosity, ASTM D 445		
cSt @ 40°C	121.15	240.0
cSt @ 100°C	16.55	30.96
Viscosity index, ASTM D 2270	148	171
Copper corrosion, 3 hours @ 121°C, ASTM D 130	1b	1b
Pour point, °C, ASTM D 97	-48	-45
Flash point (COC), °C, ASTM D 92	216	220
Density @ 20°C, kg/L, ASTM D 4052	0.865	0.880
Rust test, ASTM D 665B	No rust	No rust
Four ball test, PB, N, ASTM D 2783	1117	1578

These data are given as an indication of typical values, not exact specifications.

Specifications

Sinopec VT Synthetic Transmission Gear Oil meets the performance requirements of the following specifications:	
API	GL-5, MT-1
SAE	J 2360
MIL	PRF-2105E
MACK	GO-J
Arvin Meritor	0-76E
Scania	STO 1:0

Sinopec VT Synthetic Transmission Gear Oil 75W-90 holds the following formal OEM approvals:	
VOITH	132.00374401_EN Spur and Bevel Gearboxes (Without Axial Offset)
VOITH	132.00374402_EN Hypoid Gearbox (With Axial Offset)
ZF	TE-ML 05B, 07A, 12B, 16F, 17B, 19C, 21C
FLENDER	Rev.7 for Rail gear units

Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs

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are available from your local distributor. Do not use the product in applications other than those suggested. As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

The SINOPEC trademark is registered and protected.

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