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SINOPEC

Premium Lubricants



Launch Tech Workshop Equip. Tr. Exclusive Distributor

In **2019** SINOPEC ranked the **2nd**
in Fortune **500**
World's fourth largest lubricant company.



Largest in Asia

Brief Introduction

Launch Tech Work Shop Equip Tr. is a United Arab Emirates lubricant distributing company providing **SINOPEC lubricants** across the UAE through a network of fully integrated warehouse facilities and experienced staffs. SINOPEC had succeeded among all candidates and was selected by SINOPEC GROUP as the exclusive distributor of company's lubricant oil in the United Arab Emirates.

SINOPEC GROUP is the world's second largest oil refiner. Its products have been leading the lubricant industry for years. From oil and gas exploration equipment to lubricants for the aerospace industry, there can be no doubting Sinopec's technical expertise and performance credentials. As the third largest company in the world by the 2014 Fortune Global 500 listing, the SINOPEC Group is a major investor in energy projects around the world.

SINOPEC GROUP is a leading international petrochemical group, its lubrication products are not just fit for purpose but are also engineered to ensure that your equipment is getting the very best protection as you would expect from a global leader in lubrication. The Company offers a wide range of products for different applications, such as aviation, aerospace, automotive, manufacturing, machinery, metallurgy, mining, petrochemical and electronics. SINOPEC brand is one of the world's 500 most valuable brands. **Sinopec Lubricant Co.** is certified for ISO9001, QS9000 and TS16949 quality assurance systems and ISO14001 as well as OHSAS18001 HSE assurance systems. These management systems help ensure stable and environmental friendly quality of **Sinopec lubricants**. The products also meet the requirements of ISO, API and ACEA as well as various special specifications from OEMs.

SINOPEC has nearly 2000 products among 19 categories for the United Arab Emirates market. Every aspect of your lubrication needs is covered by the SINOPEC lubricant range of products. From engine oil and gear oil, to transmission fluid and hydraulic oil, to brake fluid and grease, to gear oil and compressor oil, to metalworking fluids and turbine, to aviation and marine oils. SINOPEC has everything you will need to keep the wheels of your operations turning smoothly, from general purpose oils through technologically superior products, to the harshest operating conditions. SINOPEC provides the highest quality lubricant and grease products to customers worldwide. With decades of improvement, SINOPEC consistently getting recognized by international independent organizations, these milestones were made through years of R&D, Innovation, Efficiency and International Quality Control Standards. SINOPEC's strong lubricant ecosystem is demonstrated through the first collaboration among Sinopec, Shell and Total to share a 2.7 million square foot lube park. Rest assured, all Sinopec lubricants are produced from high-grade 100% virgin base stocks, and blended with additives from top lubricant additive companies such as Chevron, Oronite and Afton.

SINOPEC GROUP is the third largest lubricants manufacturer is reaching new industry and consumer markets with its premium lubrication products. To spearhead the company's export drive, a new "state of the art" blending facility in Singapore was put into operation in 2013. SINOPEC uses the highest quality base oils or fully synthetic fluids to create the premium lubricants providing a complete range of OILS and GREASES to meet the needs of every major industry.



5W-30/5W-20
ILSAC GF-5
Fully Synthetic
Engine Oil
GM Dexos1
Approved

5W-40
Fully Synthetic
Engine Oil
VW 502 00/505 00
Approved

5W-30
Fully Synthetic
Engine Oil
GM Dexos2
Approved
ACEA C3

SAE Grade	0W-50	0W-40	5W-30	5W-40	5W-20
API	SN/CF	SN/CF	SN/CF	SN/CF	SN/GF-5
cSt@100° C	17.61	14.47	11.9	15.27	10.36
Dynamic Viscosity, CCS ASTM D 5293					
cP@ 35° C	6190	5800	6350	6400	5050
HTHS , ASTM D 4683					
cP@ 150° C	4.5	3.78	3.5		3.05
NOACK Volatility ASTMD5800	11	9.7			
TBN mgKOH/g ASTM D 2896	8.4	10.2	8.0	9.66	
Pour Point °C ASTM D 97	-50	-48	-36	-36	-42
Flash Point COC °C ASTM D 92	232	230	230	200	233
	0.841	0.845	0.850	0.849	0.853



SINOPEC JUSTAR J700 Engine Oil is a Super premium product formulated with ultra high performance fully synthetic base oils(PAOs) and advanced high quality multifunctional additive technology . It provides excellent oxidation resistance , deposit and wear protection , couples with low temperature performance for service in a wide range of high performance automotive petrol engines , and light duty diesel engines. It is particularly suitable for high speed applications and the severe service conditions associated with stop driving.



JUSTER J700 SERIES

Latest Fuel Injected , Turbocharged and Supercharged petrol engines. Ultimate performance petrol engines in passenger, racing cars and coaches Turbo Charged, Inter cooled, Direct Injection light duty diesel engines fitte to vans and light commercial vehicles. Also Suitable for older model passenger cars and commercial vehicles where a top performance oil is required.

INDUSTRY & OEM specifications

API Service Classification

Petrol/Gasoline: SN, SM and earlier specifications

Audi

Diesel: CF and earlier HDDEO specifications

BMW

Suitable for use in Audi 8 series

Mercedes Benz

Suitable for use in BMW 7 series

Suitable to use in Mercedes Benz S class



Product Description:

SINOPEC JUSTAR J600 Engine Oil is a stable, stay in grade, fully synthetic engine oil formulated with deeply hydrogenated base stocks and a unique additive system. Meeting various low SAPs specifications and several OEM specifications, this product provides effective protection to both turbo charged naturally aspired gasoline and diesel engines. It is designed for vehicles fitted with a two-way catalytic convertor (TWC) or the latest diesel after treatment system (Diesel Particulate Filter, DPF)

Application:

Turbocharged and naturally aspired gasoline and diesel engines. Vehicles fitted with TWC or the latest diesel after treatment system. High- Performance car and light van diesel and gasoline engines. Engines that require an oil that meets EURO IV and EURO V emissions regulations.



**JUSTAR J600
SERIES**

5W-40
Fully Synthetic
Engine Oil
ACEA C3
BMW LL-04
MB 229.31/51

10W-40
Synthetic Technology
Engine Oil
BMW Longlife-01
VW 50200/50500

5W-30
ILSAC GF-5
Synthetic Technology
Engine Oil

10W-30
ILSAC GF-5
Synthetic Technology
Engine Oil

SAE Grade	5W-40	10W-40	5W-30	5W-40
API	SM/CF	SN/CF	SN/GF-5	SN/GF-5
Kinetic Viscosity ASTM D 445				
cSt@100° C	14.5	14.17	10.37	10.52
Viscosity index , ASTM D 2270	185	183	158	155
HTHS , ASTM D 4683				
cP@ 150° C	3.75	3.80	2.96	2.99
TBN mgKOH/g ASTM D 2896	7.6	10.1	8.5	7.1
Pour Point °C ASTM D 97	-40	-42	-43	-35
Flash Point COC °CASTM D 92	230	237	230	210
Density @20° C kg/l ASTM D4052	0.849	0.848	0.850	0.849



INDUSTRY & OEM specifications

ACEA	C3-08, A3/B3/B4
API	SM/CF
BMW	LL-04
Mercedes-Benz	MB 229.31/51
Porsche	A40
Volkswagen	VW 502 00/505 00

JUSTAR J500



Product Description:

SINOPEC JUSTAR J500 Engine Oil are formulated with synthetic technology base oils and a high quality multifunctional additive package. This multipurpose oil provides effective protection for gasoline or diesel engines, especially those operating at high ambient temperatures.

Application:

A wide range of gasoline engines, especially for the major vehicle manufactures, operating at high ambient temperatures. Direct and indirect injection diesel engines, which may be naturally aspired, turbocharged or supercharged, working under high loads Engines requiring an API SM/CF quality oil.



JUSTAR J500
SERIES

10W-40

Synthetic Technology
Engine Oil

10W-30

Synthetic Technology
Engine Oil

SAE Grade	10W-30	10W-40
API	SM/GF-4	SM/CF
Kinetic Viscosity ASTM D 445	10.32	14.20
cSt@100° C	140	
Viscosity index , ASTM D 2270		
Dynamic Viscosity, CCS , ASTM D 5239	4800	5200
cP@ 25° C	6.70	3.80
TBN mgKOH/g ASTM D 2896	-36	-35
Pour Point 'C ASTM D 97	230	233
Flash Point COC °CASTM D 92	0.866	0.872
Density @20° C kg/l ASTM D4052		



INDUSTRY & OEM specifications

API Service Classification

GB'
ASTM
Chrysler
Toyota

Petrol/Gasoline: SM and earlier specifications

Diesel: CFand earlier HDDEO specifications

11122-2006 (CF)

11121-2006 (SL)

D4485-2010

Service fill oil for Chrysker 300C (in China) (10W-30)

Factory fill oil for Toyota Camry (in China) (10W-30)

JUSTAR J500



Product Description:

SINOPEC JUSTAR J500 Engine Oil are formulated with highly refined, hydrocracked base oils and a high quality multifunctional additive package. This multipurpose oil provides effective protection for gasoline or diesel engines, especially those operating at high ambient temperatures.

Application:

A wide range of gasoline engines, especially for the major vehicle manufactures, operating at high ambient temperatures. Direct and indirect injection diesel engines, which may be naturally aspired, turbocharged or supercharged, working under high loads Engines requiring an API SM/CF quality oil.



JUSTAR J500
SERIES

15W-40 Engine Oil



SAE Grade	15W-40	20W-50
API Grade	SM/CF	SM/CF
Kinetic Viscosity ASTM D 445		
cSt@100° C	15.5	18.8
Viscosity index , ASTM D 2270	137	121
Dynamic Viscosity, CCS , ASTM D 5239		
cP@ 20° C	6100	-
TBN mgKOH/g ASTM D 2896	6.70	6.70
Pour Point °C ASTM D 97	-30	-24
Flash Point COC °CASTM D 92	228	234
Density @20° C kg/l ASTM D4052	0.871	0.881

20W-50 Engine Oil



INDUSTRY & OEM specifications

API Service Classification

GB'
ASTM
Chrysler
Toyota

Petrol/Gasoline: SM and earlier specifications

Diesel: CFand earlier HDDEO specifications

11122-2006 (CF)

11121-2006 (SL)

D4485-2010

Service fill oil for Chrysker 300C (in China) (10W-30)

Factory fill oil for Toyota Camry (in China) (10W-30)



Product Description:

SINOPEC JUSTAR J500 Engine Oil are formulated with highly refined, base oils and a high quality multifunctional additive package. This multipurpose oil provides effective protection for gasoline or diesel engines, especially those operating under normal or elevated ambient operating conditions, providing excellent engine protection.

Application:

Petrol engines in present and earlier passenger cars, sport utility vehicles, vans and light trucks working under normal operating conditions and following vehicle manufactures recommended maintenance procedures. Direct and indirect injection diesel engines, which may naturally aspirated, turbocharged or supercharged, working under high loads. Older Vehicle engines require a heavier viscosity crankcase oil.



JUSTAR J500
SERIES

20W-50
Engine Oil

SAE Grade	20W-50
API Grade	SL/CF
Kinetic Viscosity ASTM D 445	
cSt@100° C	18.00
Viscosity index , ASTM D 2270	120
Dynamic Viscosity, CCS , ASTM D 5239	
cP@ 20° C	6700
TBN mgKOH/g ASTM D 2896	7.3
Pour Point °C ASTM D 97	-25
Flash Point COC °CASTM D 92	232
Density @20° C kg/l ASTM D4052	0.881

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



INDUSTRY & OEM specifications

ACEA	A3/B3-04
API Service Classification	Petrol/Gasoline: SL and earlier specifications Diesel: CF and earlier HDDEO specifications
GB	11121-2006 (SL) 11122-2006 (CF)
API Service Classification	Petrol/Gasoline: SL
Mercedes Benz	229.1

Note: 'GB' standards are the National Standards of the People's Republic of China

DOT3 Synthetic Brake Fluid



Product Description:

Sinopec DOT 3 Synthetic Brake Fluid is formulated using a blend of synthetic glycol ether with selected additives. It meets the requirements of the DOT 3 specification to give excellent brake and clutch performance, avoiding the problems of vapor lock and brake fade.

Application:

Sinopec DOT 3 Synthetic Brake Fluid is suitable for use in:

- Hydraulic disc, drum and anti-skid brakes and clutch systems of all passenger cars and commercial vehicles that require a DOT 3 or DOT 3 performance synthetic fluid.

Caution: do not use where a mineral oil-based fluid or a DOT 5 silicone-based fluid is required.

Features & Benefits:

- High performance of equilibrium reflux boiling point to resist the heat generated in high speed and overload vehicles while breaking.
- Excellent fluidity at low temperature.
- Works well with composite brake systems, in particular suitable for the rubber components, and protection the metal components.
- Excellent anti-rust, anti-corrosion, anti-oxidation and compatibility with rubber.

DOT 3 Synthetic
Brake Fluid

Typical Data:

Sinopec DOT 3 Synthetic Brake Fluid	
Equilibrium reflux boiling point (ERBP), °C, ISO 4925	248
Wet ERBP, °C, ISO 4925	150
Kinematic viscosity, ISO 4925	
cSt @ -40°C	1170
cSt @ 100°C	2.115
pH, ISO 4925	9.0
Corrosion, 120 h @ 100°C, mass change of metal strips, mg/cm ² , ISO 4925	
Tinned Iron	0.00
Steel	0.00
Aluminum	0.00
Cast Iron	0.00
Brass	0.12
Copper	0.10
Effect on rubber, ISO 4925	Pass
Styrene Butadiene Rubber (SBR) @ 120°C	
Cup Diameter Increase, mm	0.75
Hardness Change, IRHD	6
Ethylene Propylene Diene Monomer (EPDM) @ 120°C	
Volume Change, %	3.10
Hardness Change, IRHD	3

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

Industry & OEM Specifications

Sinopec DOT 3 Synthetic Brake Fluid meets the performance requirements of the following industry specifications:

FMVSS No. 116	DOT 3
GB ¹	12981-2012HZY3



Automatic Transmission Fluid III-H



Product Description:

Sinopec Automatic Transmission Fluid III-H is a multifunctional fluid formulated with high viscosity index synthetic base oil and selected additives. It is suitable for use in the automatic transmission systems of many vehicles, and in some power steering and hydraulic systems.

Application:

Sinopec Automatic Transmission Fluid III-H is suitable for use in:

- All vehicles where GM DEXRON® III, Ford MERCON® or Allison C-4 fluids are required.
- Four-, five-, and some six-speed automatic transmissions used in US, Japanese and some European passenger cars.
- Power steering units of some passenger cars.
- Many automatic transmissions, power steering and hydraulics systems in heavy-duty vehicles used, for example, in the construction industry.
- Hydrostatic drives and hydraulic systems in industrial, agricultural, mining and marine applications where GM DEXRON® III, Ford MERCON® or Allison C-4 is specified.
- Some specific hydraulic systems that require an ISO VG 32, 46 or 68 fluid.
- Not recommended for use in continuously variable transmission (CVT) systems.

Features & Benefits:

- Outstanding oxidation stability, thermal stability and detergency ensure long fluid life and prevent the buildup of deposits.
- Excellent frictional characteristics improve transmission efficiency and shifting performance, and ensure consistent, reliable, trouble-free operation of transmission systems.
- Excellent antiwear performance and good oil film strength protect components from wear and ensure long transmission life.
- Very good low-temperature properties protect against wear under cold start-up and running conditions and ensure good low-temperature shift performance.
- Effective control of foaming ensures good transfer of power and shifting performance, and reduces fluid loss in severe service conditions.
- Fully compatible with common seal materials found in transmission systems, to extend seal life and prevent fluid leakage.

Automatic Transmission Fluid III-H

Typical Data:

Sinopec Automatic Transmission Fluid III-H	
Kinematic viscosity, ASTM D 445	
cSt @ 40 °C	33.89
cSt @ 100 °C	7.32
Viscosity, Brookfield, ASTM D 2983	
cP @ -30 °C	2400
cP @ -40 °C	9000
Viscosity index, ASTM D 2270	185
Copper corrosion, 3 hours 150 °C, ASTM D 130	1b
Pour point, °C, ASTM D 97	-40
Flash point (COC), °C, ASTM D 92	198
Density @ 20 °C, kg/l, ASTM D 4052	0.845
Color	Red

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

Industry & OEM Specifications

Sinopec Automatic Transmission Fluid III-H meets the performance requirements of the following OEM specifications:

Allison	C-4
Ford	MERCON®
GM	DEXRON® III-H
Nissan	1998 to 2004: Most except as noted 2005-2006: 4 cyl Altima, 4-speed Maxima, 4-speed Quest
Subaru	Before 2005, Most except as noted
Volvo	1995-1998: 850, 940, 960; 70, 90 Series 1999-2000: V50, V70, V70R and XC70 with AW50-42 or AW42AWD; C70 1999 to 2005: S80 with 4T65EV, XC90 with 4T65AWD, S70 with AW50-42 or AW42AWD



Sinopec Automatic Transmission Fluid III-H holds the following OEM approvals:

Allison	C-4
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Sinopec Multipurpose Lithium Grease (Natural)



Product Description:

Sinopec Multipurpose Lithium Grease (Natural) is a multipurpose grease with excellent mechanical and oxidation stability, good water resistance and corrosion protection properties. It is formulated with a lithium soap thickener and high quality refined mineral oil. It contains rust and oxidation inhibitors to ensure excellent performance and long life. Available in NLGI grades 1, 2 and 3.

Application:

- Sinopec Multipurpose Lithium Grease (Natural) is suitable for use in:
- General lubrication of sliding bearings and other friction points of mechanical equipment, where there is no requirement for load carrying properties.
 - Applications where the temperature range is from -20°C to +120°C



**Lithium
Grease**

INDUSTRY & OEM specifications

Lithium soap thickener ensures good mechanical stability, so that the grease structure does not soften or break down in servicet.

- Excellent water resistance means that the grease stays in place and is not washed or sprayed off in wet conditions, reducing the need for frequent re-application.
- Protection against rust and corrosion ensures long component life, and extends maintenance intervals.
- Good oxidation stability ensures longer grease life, providing optimum lubrication, extending equipment life and reducing maintenance requirements.
- Adheres strongly to metal surfaces, sealing out dirt and abrasive materials, ensuring longer lubricating intervals.
- Available in NLGI grades 1, 2 and 3 to meet the requirements of different application.

Typical Data

Sinopec Multipurpose Lithium Grease (Natural)			
NLGI grade	1	2	3
Appearance, visual	Light yellow/brown, smooth, buttery		
Thickener type	Lithium		
Base fluid type	Mineral		
Kinetic Viscosity ASTM D 445			
cSt@100° C	9-13	9-13	9-13
Cone penetration, ASTM D 217			
W×60, mm ⁻¹	324	285	230
W×100,000, mm ⁻¹	309	296	257
Oil separation, 24h @ 100° C, %, FTMS 791C-321.3	9.7	1.5	0.0
Apparent viscosity, -15° C, 10 s-1, Pas, GOST 7163	177	475	757
Dropping point, ° C, ASTM D 566	194	194	193
Copper corrosion, T2 copper strip, 24 h @ 100° C, rating, JIS K 2220 5.5	pass	pass	pass
Corrosion prevention, 48h @ 52° C, rating, ASTM D 1743	pass	pass	pass
Water washout, 1h @ 38° C, %, ASTM D 1264	2	2	1
Oxidation stability, 100h @ 99° C & 760 kPa, pressure drop, kPa, ASTM D 942	324	285	230
Impurities, quantity/cm3, JIS K 2220 5.9			
10 µm or larger	240	320	280
25 µm or larger	40	80	40
75 µm or larger	0	0	0
125 µm or larger	0	0	0

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



L-HM Anti-wear Hydraulic



Product Description:

L-HM anti-wear hydraulic oil is blended with highly refined base oil and multi-functional additive by internationally advanced process. Meeting a plurality of international OEM standards, the product can be comprehensively used in lubrication of high pressure hydraulic system in industry, shipping and mobile type machinery, etc. The product comprises several grades such as 15, 22, 32, 46, 68 and 100. According to its kinematic viscosity at 40° C

Application:

- ✓ Comprehensively used in lubrication of high pressure hydraulic system in industry, shipping, mobile type machinery and so on.
- ✓ Comprehensively used in lubrication of high pressure hydraulic system in engineering machinery, mining machinery, metallurgical equipment and so on



L-HM Anti-wear
Hydraulic

L-HM 32/46/68

Anti-wear
Hydraulic Oil

Typical Data

Item	L-HM Anti-wear Hydraulic Oil		
ISO viscosity grade	32	46	68
Kinematic viscosity (40° C), mm ² /s	33.2	45.8	67.4
Viscosity index	98	97	98
Flash point (COC), ° C	230	240	245
Pour point,° C	-15	-15	-13

Technical Specification

The product meets the following specifications:

- ✓ GB 11118.1
- ✓ ISO 11158 (L-HM)

The product has been approved by following OEM:

- ✓ Parker-Denison HF-0
- ✓ Eaton-Vickers
- ✓ Cincinnati P68, P70, P69



Sinopec Extreme Pressure Lithium Base Grease



Product Description:

Sinopec Extreme Pressure Lithium Base Grease is an extreme pressure grease, formulated with a lithium soap thickener and high-quality mineral base oil. It contains rust and oxidation inhibitors, and extreme pressure and antiwear additives to ensure excellent performance and long life, even in severe service conditions where high temperatures, shock loading and water contamination are possible.

Application:

- Sinopec Extreme Pressure Lithium Base Grease is suitable for use in:
- Bearings and gears of medium to heavily loaded mechanical equipment, where an extreme pressure/antiwear grease is required for extra protection.
 - Applications where the temperature range is from -20°C to 120°C. -20°C to +120°C

Features and Benefits

- Excellent extreme pressure and antiwear properties protect heavily loaded or shock-loaded bearings from wear, extending equipment life.
- Lithium soap thickener ensures good mechanical stability, so the grease structure does not soften or break down in service.
- High-quality base oil ensures a good oil film thickness is maintained, even in high-temperature applications, protecting components from wear.
- Excellent protection against rust and corrosion ensures long component life, and extends maintenance intervals.
- Good thermal and oxidation stability ensure longer grease life under high-temperature conditions, providing optimum lubrication, extending equipment life and reducing maintenance requirements.
- Grease adheres strongly to metal surfaces, sealing out dirt and abrasive materials, to ensure longer lubricating intervals.
- Available in NLGI grades 00, 0, 1 and 2 to meet the requirements of specific applications.

Lithium
Grease

Typical Data

Sinopec Multipurpose Lithium Grease (Natural)				
NLGI grade	00	0	1	2
Appearance, visual	Smooth, puce, buttery			
Thickener type	Lithium			
Base fluid type	Mineral			
Kinetic Viscosity ASTM D 445				
cSt@100° C (range)	9-12	9-12	9-12	9-12
Cone penetration, ASTM D 217				
W×60, mm ⁻¹	414	374	323	293
W×100,000, mm ⁻¹	440	400	350	317
Dropping point, ° C, ASTM D 566	173	178	184	196
Oil separation, 24h @ 100° C, %, FTMS 791C-321.3	-	-	8.0	3.2
Corrosion prevention, 48 h @ 52°C, rating, ASTM D 1743	pass	pass	pass	pass
Copper corrosion, T2 copper strip, 24 h @ 100°C, rating, ASTM D 4048	pass	pass	pass	pass
Timken OK load, N, ASTM D 2509	156	156	156	156
Four ball EP, PB, N, ASTM D 2596	618	618	618	618
Apparent viscosity, -10°C, 10 s-1, Pas, GOST 7163	58	114	126	349
Impurities, quantity/cm3, JIS K 2220 5.9				
25 µm or larger	240	240	200	280
75 µm or larger	80	80	0	80
125 µm or larger	0	0	0	0



Industry & OEM Specifications

Sinopec Extreme Pressure Lithium Base Grease meets the performance requirements of the following industry specifications:	
GB ¹	7323-94
Sinopec	Q/SH303 243-2004
Sinopec Extreme Pressure Lithium Base Grease holds the following formal industry approvals/licenses:	
¹ Note: 'GB' standards are the National Standards of the People's Republic of China.	
Sinopec Extreme Pressure Lithium Base Grease holds the following formal OEM approvals:	
Pan Steel Mine Company	Approved for use in cranes
Xuzhou Heavy-duty Machine Mill Company	Approved for use in cranes

