

مصنع دانة لوبريكانتس (ذ م م)

DANA LUBRICANTS FACTORY L.L.C

(A Division of DANA Group)



ISO 9001:2015 & ISO 14001:2015 & ISO 45001:2018

Registered company by LLC (No: AJU-1116 & AJU-5046 & AJU-3057)

DANA GEAR OIL SYNTHETIC 320

Product Data Sheet (MSDS)

Product Description

Dana Gear Oil Synthetic 320 is based on synthetic hydrocarbons and a special plastic deformation (PD) and Surface improvement additive package. The additive package, when activated by high specific loads and Corresponding temperatures, helps to equalize surface roughness without creating abrasion leading to the Surface improvement (plastic deformation.) gear oil synthetic 320 is a CLP-HC gear oil (according to DIN 51502) And exceeds the minimum requirements according to DIN 51517, part 3, CPL gear oils.

Applications

Dana gear oil synthetic 320 may be used in spur gear, bevel gears or planetary gear units and in heavy loaded Gear units. E.G. wind turbine main gears. It is also suitable for the lubrication of oil-lubricated rolling bearings. Depending on the specific application, **Dana gear synthetic 320** may be used in an operating temperature range From 30⁰c to + 90 °c.

BASIC BENEFITS

- High load carrying capacity.
- Superior micro pitting protection.
- Excellent friction reduction.
- Good filtration properties.
- Excellent bearing lubrication suitability.



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OEM CERTIFICATIONS*
*available



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Technical Product Data (TDS)

Test	Method	units	X 150	X 220	X 320	X 460
ISO Viscosity grade	ASTM D 2422	-	150	220	320	460
Density at + 15 °C	ISO 12185 / ASTM D4052	g/ml	0.847	0.85	0.854	0.856
Kinematic viscosity @ 40°C @ 100°C	ISO 3104 / ASTM D445	mm ² /s mm ² /s	146 19	218 25.9	325 34.9	459 45
Viscosity index	ISO 2909 / ASTM 2270		148	151	152	153
Flash point, COC	ISO 2592 / ASTM D92	°C	>250			
Pour point	ISO 3016 / ASTM D97	°C	-39	-33	-33	-27
Rust test Procedure A (24 hours Distilled water) Procedure B (24 hours synthetic sea water)	ISO 7210 / ASTM D665		Pass Pass	Pass Pass	Pass Pass	Pass Pass
Copper corrosion (3 hours @ 100°C	ISO 2160 / ASTM D130		1a	1a	1a	1a
FE8 Wear test (81212MPB-75/80-80) Roller wear Cage wear	DIN 51819-3	mg mg	<10 <10			
FZG test A/8. 3/90 scoring load stage A/16. 6/90 scoring load stage	DIN 51354		>12 12			
FZG micro pitting test	FVA NO.54		>10			
Foam sequence I	ISO 6247 / ASTM D892	ml	<100/10			
Ageing behavior, increase of viscosity at 100°C after 1000 h	ASTM 2893	%	2			

Subject to usual manufacturing tolerances.

Additional information

Dana synthetic 320 gear oil can be applied by an oil can, oil cup reservoir, Splash , spray mist or by automatic Dispensing equipment and central or circulation systems. It is compatible with mineral oil and esters. This means that traces up 3% of previous oil in the gear case after draining will not pose any problems. However, the beneficial effects of the special PD additive are reduced when mixed with other gear oils.



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Mercedes-Benz

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About manufacturer

Dana Lubricants Factory, Dubai based , Petrochemical manufacturer and supplier for wide range of Petrochemicals covering Base oils, Solvent Neutral Sn 100/150/300/500/600/900 , Automotive Lubricants and engine oils , Industrial Lubricant Oils and Grease , White oils and Petroleum Jelly, Octane Booster and Fuel Additives , Transformer oils Paraffinic and Napthenic , White spirit , Mix Xylene toluene and Rpo . Middle east is hub for all petrochemicals refined, produced and packaged in UAE in bulk packing like Iso , Flexi , Drums (Metal drums and plastic drums) , lbc (tote) and exported to across the globe using standard 20 " and 40" containers.

Dana Petrochemicals , Dana Plastics , Dana Lubricants , Dana Base oils , Dana Transformer Oils , Dana Paints , Dana Steel are all different divisions of Dana Group of Companies spread around in entire UAE covering all emirates Dubai , Abu Dhabi , Ajman, UAQ and other countries like India, Saudi Arabia and Oman .

For more details , visit [http:// www.danalubes.com](http://www.danalubes.com) , <http://www.danagroups.com>



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