

## PLANTOHYD N

**Environmentally friendly hydraulic and lubricating oils based on natural substances, type HETG, according to ISO 15380, for mobile and stationary hydraulic equipments, awarded with the "European Ecolabel (EEL)"**

### Description

PLANTOHYD N products are hydraulic oils based on renewable, natural substances (triglycerides) with active ingredients for the improvement of oxidation and ageing stability. Due to their very good biodegradability they are an environmentally friendly alternative to mineral based hydraulic oils (at low and medium load). The high polarity of the PLANTOHYD N oils results in excellent lubricating properties. The products fulfill and exceed the minimum requirements according to ISO 15380, type HETG. PLANTOHYD 40 N has been awarded with the "European Ecolabel (EEL)".

### Application

PLANTOHYD 32 N or PLANTOHYD 40 N can be applied in mobile and stationary hydraulic equipments which must be filled with ISO VG 32 or ISO VG 46 hydraulic oil. In case of an oil change to PLANTOHYD N in hydraulic aggregates the guidelines for fluid change according to ISO 15380 must be observed. Repair paints and paints/lacquers which are not based on 2-component systems, are perhaps not stable to mineral oil as well as natural esters. The PLANTOHYD N products will show their best performance at tank temperatures between 50 and 60 °C. Recommended temperature range for application: - 27 °C till + 70 °C.

### Specifications

The products of the PLANTOHYD N series fulfill or exceed the requirements according to

- ISO 15380: HETG
- European Ecolabel for PLANTOHYD 40 N

### Advantages

- Based on renewable raw materials, > 50%
- Environmentally compatible
- Rapidly biodegradable (> 60% according to OECD 301 B)
- Multigrade characteristics due to high natural, shear stable viscosity index
- Good corrosion protection
- Excellent lubricating properties
- Low evaporation loss
- Natural cleaning properties
- Good low temperature characteristics



**EU Ecolabel: DE/027/159**



**Better for the environment ...**

- geringfügige Schädigung von Wasser und Boden bei der Anwendung
- enthält einen großen Anteil von Ausgangsstoffen auf biologischer Basis
- reduced harm for water and soil during use
- contains a large fraction of biobased material

**... better for you.**

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### Typical technical data:

Product name		32 N	40 N	
Properties	Unit			Test method
ISO VG		32	46	DIN 51519
Kinematic viscosity				DIN EN ISO 3104
at - 20 °C	mm <sup>2</sup> /s	898	1100	
at 0 °C	mm <sup>2</sup> /s	280	260	
at 40 °C	mm <sup>2</sup> /s	31.4	42	
at 100 °C	mm <sup>2</sup> /s	7.4	9.3	
Viscosity index	-	213	215	DIN ISO 2909
Density at 15 °C	kg/m <sup>3</sup>	922	922	DIN 51757
Colour	ASTM	1.0	1.0	DIN ISO 2049
Flash point in open cup, acc. to Cleveland	°C	274	300	DIN ISO 2592
Pourpoint	°C	- 39	- 39	DIN ISO 3016
Neutralisation number	mgKOH/g	0.7	0.6	DIN 51558-1
Scuffing and scoring test, FZG A/8.3/90	failure load stage	12	12	DIN ISO 14635-1
Effect on sealing materials:				ISO 6072
FKM2, 1008 h, 80 °C				
- relative change of volume	%		+ 0.5	
- change of Shore A hardness	Shore		- 2.0	
HNBR1, 1008 h, 80 °C				
- relative change of volume	%		+ 3.8	
- change of Shore A hardness	Shore		- 2.8	



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The information contained in this product information is based on the experience and know-how of FUCHS SCHMIERSTOFFE GMBH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend that you consult a FUCHS SCHMIERSTOFFE GMBH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without warning, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid.

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