

## RENOLIN DTA

### Lubricating and hydraulic oils

#### Description

Hydraulic and lubricating oils made from selected base oils with additives to improve ageing stability and DTA series are hydraulic and lubricating oils according to DIN 51 524-1 (HL) and DIN 51 517-2 (CL), mineral oil-based, demulsifying, and zinc-free.

#### Application

Demulsifying lubricating oils for circulation system and bearing lubricants. Superbly suited for use as a pressure medium for all applications in mobile and stationary hydraulic oil according to DIN 51-524-1 HL) is recommended.

RENOLIN DTA oils are also excellently suited for high-temperature operating conditions, which occur in calendars and lubricating systems in roller stands, for example. Products from the RENOLIN STA series have also been proven most effective in vacuum pumps.

#### Advantages

- Low foaming tendency
- Good air release properties
- High ageing resistance
- Good corrosion protection
- Good viscosity-temperature behavior
- Wear-protecting
- High oxidation resistance

#### Specifications

- DIN 51524-1: HL
- ISO 6743-4: HL
- DIN 51 517-2:CL
- ISO 6743-6 AND ISO 12925-1: CKB
- AGMA 9005/E02: R&O

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Product name		22	32	46	68	
Properties	Unit					Test Method
ISO VG	-	22	32	46	68	DIN 51 519
Kinematic viscosity						
At 40°C	Mm <sup>2</sup> /s	22	32	46	68	DIN EN ISO 3104
At 100°C	Mm <sup>2</sup> /s	4.2	5.4	6.8	8.7	
Viscosity index	-	94	102	101	99	DIN ISO 2909
Density at 15°C	Kg/m <sup>3</sup>	865	874	874	882	DIN 51 757
Color	ASTM	0.5	0.5	1.0	1.0	DIN ISO 2049
Flashpoint (COC)	°C	210	222	228	250	DIN ISO 2592
Pour Point	°C	-27	-24	-24	-18	DIN ISO 3016
Neutralisation Number	mgKOH/g	0.1	0.1	0.1	0.1	DIN 51 558-1

Product name		5	7	10	15	
Properties	Unit					Test Method
ISO VG	-	5	7	10	15	DIN 51 519
Kinematic viscosity						
At 40°C	Mm <sup>2</sup> /s	4.6	7.4	10	15	DIN EN ISO 3104
At 100°C	Mm <sup>2</sup> /s	1.6	2.2	2.6	3.4	
Viscosity index	-	106	103	92	98	DIN ISO 2909
Density at 15°C	Kg/m <sup>3</sup>	837	839	851	856	DIN 51 757
Color	ASTM	0.5	0.5	1.0	1.0	DIN ISO 2049
Flashpoint (COC)	°C	210	222	228	250	DIN ISO 2592
Pour Point	°C	-27	-24	-24	-18	DIN ISO 3016
Neutralisation Number	mgKOH/g	0.1	0.1	0.1	0.1	DIN 51 558-1

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Product name		100	150	220	320	
Properties	Unit					Test Method
ISO VG	-	100	150	220	320	DIN 51 519
Kinematic viscosity						
At 40°C	Mm <sup>2</sup> /s	100	150	220	320	DIN EN ISO 3104
At 100°C	Mm <sup>2</sup> /s	11.2	15.5	18.8	24.0	
Viscosity index	-	97	94	95	95	DIN ISO 2909
Density at 15°C	Kg/m <sup>3</sup>	881	889	893	898	DIN 51 757
Color	ASTM	1.0	2.5	3.5	3.5	DIN ISO 2049
Flashpoint (COC)	°C	248	266	280	280	DIN ISO 2592
Pour Point	°C	-18	-15	-12	-12	DIN ISO 3016
Neutralisation Number	mgKOH/g	0.1	0.1	0.1	0.1	DIN 51 558-1

Product name		460	680	
Properties	Unit			Test Method
ISO VG	-	460	680	DIN 51 519
Kinematic viscosity				
At 40°C	Mm <sup>2</sup> /s	460	680	DIN EN ISO 3104
At 100°C	Mm <sup>2</sup> /s	30.4	37.9	
Viscosity index	-	95	92	DIN ISO 2909
Density at 15°C	Kg/m <sup>3</sup>	904	913	DIN 51 757
Color	ASTM	4.0	8.0	DIN ISO 2049
Flashpoint (COC)	°C	315	302	DIN ISO 2592
Pour Point	°C	-12	-12	DIN ISO 3016
Neutralisation Number	mgKOH/g	0.1	0.3	DIN 51 558-1

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For this reason, universally-valid statements about the function of our products are not possible. The information given in this Product Information sheet 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 you consult a FUCHS LUBRICANTS CO. 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.

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