

## RENOLIN DTA

General R & O resistant oil.

### Description

RENOLIN DTA series is blended from highly refined, virgin base oils and high-tech additives. These oils have excellent oxidation & thermal stability, rust & corrosion protection, anti-foaming, air-release and emulsification properties. They can be used in hydraulic systems and gearboxes requiring mild EP properties. The ISO VG 32, 46, 68 grades are specially developed for steam and gas turbine systems meeting GEK 32568F.

### Specifications & Performance Levels

- DIN 51524-1 HL
- DIN 51517-2 CL
- GEK 32568 F
- BS 489 (CIGRE)
- Siemens/KWU TLV9013/04-01

### Features

- One product for steam & gas turbines and high processors compressors (with or without gearboxes)
- Excellent Oxidation & thermal stability
- Rust & Corrosion protection
- Good water separation properties
- Good air release properties

- No foaming
- Good load carrying capacity
- Excellent TOST and RPVOT (RBOT) values
- Meets severe specifications of GEK 32568 F

### Applications:

- For lubrication of steam and gas turbines in severe operating conditions (with or without gearboxes).
- For high pressure compressors.
- Journal bearings.
- Hydraulic systems.
- Gearboxes requiring mild EP properties.
- Control units.
- Pumps.
- Closed circulation systems.
- General lubrication of machines.
- Bearing lubrication of paper manufacturing & calendaring machines and central lubrication of rolling machines.

RENOLIN DTA series, lower viscosity grades (ISO 32, 46 & 68) are used for turbines & compressors and higher viscosity grades are used for higher loads, higher temperatures and low speed applications.

#### Dhaka Office :

37, Suhrawardy Avenue  
Baridhara, Dhaka 1212,  
Bangladesh  
Phone : 88 02-9858465, 9858559  
Fax : 8802-9858465, 9858559, Extn.-112  
Website : www.fuchsb.com

#### Plant :

BSCIC Industrial Estate  
Block-A, Sagarika Road, Chittagong 4219  
Bangladesh.  
Phone : 88-031-2770060,2770446,2773840  
Fax : 88-031-2770061



# Product Information



## CHARACTERISTICS

Properties	Units	Value						Test Methods
ISO VG		10	15	22	32	46	68	DIN 51519/ ISO 3448/ ASTM D 2422
Viscosity @ 40 °C	mm <sup>2</sup> /s	10.6	15.4	22.0	32.8	46.4	68.9	ASTM D 445
Viscosity @ 100 °C	mm <sup>2</sup> /s	2.8	3.5	4.32	5.5	6.8	8.9	ASTM D 445
Viscosity Index	-	108	104	102	103	100	102	ASTM D 2270
Density @ 15 °C	kg/m <sup>3</sup>	854	858	868	873	876	879	ASTM D 4052
Colour	-	0.3	0.5	0.5	0.5	0.5	0.5	ASTM D 1500
Total Acid Number	mg KOH/g	0.12	0.12	0.12	0.12	0.12	0.12	ASTM D 664
Flash Point, COC	°C	173	182	200	225	230	240	ASTM D 92
Pour Point	°C	-27	-27	-9	-12	-6	-6	ASTM D 97
Air Release	Min.	-	-	-	-	-	-	DIN 51381/ IP 313
Foaming								
Sequence I	ml/ml	20/0	20/0	20/0	15/0	15/0	15/0	ASTM D-892
Sequence II		15/0	15/0	15/0	10/0	10/0	10/0	
Sequence III		20/0	20/0	20/0	15/0	15/0	15/0	
Demulsibility	ml/ml/ml (min)	40-40-0 15	40-40-0 20	40-40-0 20	40-40-0 15	40-40-0 15	40-40-0 15	ASTM D 1401
Rust Inhibition, Iron protection	rating	Pass	Pass	Pass	Pass	Pass	Pass	ASTM D 665A
Corrosion, Copper strip, 3hrs @ 100 °C	rating	1a	1a	1a	1a	1a	1a	ASTM D 130
FZG gear test(A/8.3/90) Failure load stage.	-	10	10	10	10	10	10	DIN 51354
TOST life, Time to 2 TAN	Hrs	>3500	>3500	>3500	>3500	>3500	>3500	ASTM D 943
RPVOT (RBOT)	min.	>900	>900	>900	>900	>900	>900	ASTM D 2272
CIGRE Test	l							
Total Oxidation Products	%	0.3	0.3	0.3	0.3	0.3	0.3	IP 280
Sludge Contents of TOP	g/100ml	0.16	0.16	0.16	0.16	0.16	0.16	
Ash oxide	%	Nil	Nil	Nil	Nil	Nil	Nil	ASTM D-482

**Dhaka Office :**  
37, Suhrawardy Avenue  
Baridhara, Dhaka 1212,  
Bangladesh  
Phone : 88 02-9858465, 9858559  
Fax : 8802-9858465, 9858559, Extn.-112  
Website : www.fuchsb.com

**Plant :**  
BSCIC Industrial Estate  
Block-A, Sagarika Road, Chittagong 4219  
Bangladesh.  
Phone : 88-031-2770060,2770446,2773840  
Fax : 88-031-2770061



# Product Information



Properties	Unit	Value						Test Method
ISO VG		100	150	220	320	460	680	DIN 51519/ ISO 3448/ ASTM D 2422
Viscosity @ 40 °C	mm <sup>2</sup> /s	100	150.4	220.0	320.8	460.4	680.9	ASTM D 445
Viscosity @ 100 °C	mm <sup>2</sup> /s	11.5	15.3	19.9	25.5	32.2	41.8	ASTM D 445
Viscosity Index	-	102	103	104	103	102	102	ASTM D 2270
Density @ 15 °C	kg/m <sup>3</sup>	880	883	884	894	901	907	ASTM D 4052
Colour	-	0.8	1.0	1.3	1.6	1.8	1.9	ASTM D 1500
Total Acid Number	mg KOH/g	0.12	0.12	0.12	0.12	0.12	0.12	ASTM D 664
Flash Point, COC	°C	230	237	246	256	282	293	ASTM D 92
Pour Point	°C	-27	-27	-9	-12	-6	-6	ASTM D 97
Air Release	min.	-	-	-	-	-	-	DIN 51381/ IP 313
Foaming Sequence I	ml/ml	20/0	20/0	20/0	15/0	15/0	15/0	ASTM D 892
Sequence II		15/0	15/0	15/0	10/0	10/0	10/0	
Sequence III		20/0	20/0	20/0	15/0	15/0	15/0	
Demulsibility	ml/ml/ml (min)	40-40-0 15	40-40-0 20	40-40-0 20	40-40-0 15	40-40-0 15	40-40-0 15	ASTM D 1401
Rust Inhibition, Iron protection	rating	Pass	Pass	Pass	Pass	Pass	Pass	ASTM D 665A
Corrosion, Copper strip, 3hrs @ 100 °C	rating	1b	1b	1b	1b	1b	1b	ASTM D 130
FZG gear test (A/8.3/90)	-							DIN 51354
Failure load stage.		10	10	10	10	10	10	
TOST life, Time to 2 TAN	hrs	-	-	-	-	-	-	ASTM D 943
RPVOT (RBOT)	min.	-	-	-	-	-	-	ASTM D 2272
CIGRE Test Total Oxidation Products	%wt	-	-	-	-	-	-	IP 280
Sludge Contents of TOP	g/100ml							
Ash oxide	%	Nil	Nil	Nil	Nil	Nil	Nil	ASTM D 482

**Dhaka Office :**  
37, Suhrawardy Avenue  
Baridhara, Dhaka 1212,  
Bangladesh  
Phone : 88 02-9858465, 9858559  
Fax : 8802-9858465, 9858559, Extn.-112  
Website : www.fuchsbd.com

**Plant :**  
BSCIC Industrial Estate  
Block-A, Sagarika Road, Chittagong 4219  
Bangladesh.  
Phone : 88-031-2770060,2770446,2773840  
Fax : 88-031-2770061

