



# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: 0W30 API SL/CF

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SL/CF
KIND	MULTIGRADE MOTOR OIL STANDARD
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE-0W-30 is a 100 % synthetic motor oil based on very high-quality lubricant base oils and special new generation additives. This product is developed to deliver highest possible standards of lubricant engineering. It can be used in most recent technology gasoline and diesel engines of modern passenger cars. This product is suitable for all driving styles, particularly 'vigorous' and high-speed driving.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	min 0,80	0,878
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	min 2	2-2,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	9,3-12,5	9,6
Kinematic Viscosity @40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	54,45
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 100	162
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-25	-38
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	232
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999	Min.8	10,5

Test results can vary upto 2-3% under different testing conditions.

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

ASTM D 2896 B/98

## PRODUCT NAME: 5W30 API SL/CF

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SL/CF
KIND	MULTIGRADE MOTOR OIL STANDARD
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE-5W-30 is a 100 % synthetic motor oil based on latest synthetic technology with superior additives. This product is developed to provide perfect protection of the engines requiring very high performance driving. It can be used in modern gasoline and diesel passenger cars and commercial car fleets due to its long oil change period and low operation costs.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	min 0,80	0,878
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	min 2	2-2,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	9,3-12,5	11,3
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	66,8
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 100	177
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-25	-38
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	232
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999 ASTM D 2896 B/98	Min.8	10,5

Test results can vary upto 2-3% under different testing conditions.

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

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## PRODUCT NAME: 5W40 API CF

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-C
FAMILY	TS-E-CF
KIND	MULTIGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE-5W-40 is a synthetic motor oil for gasoline and diesel engines including turbocharged and intercooled diesel engines. It is particularly developed for high rpm and high power diesel engines. It protects the engines in all climatic and heavy conditions.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	min 0,80	0,878
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	min 2	2,5-3
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	12,5-16,3	13,76
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	81,2
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 100	175
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-25	-39
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	226
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999 ASTM D 2896 B/98	Min.7,5	10

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: 10W40 API SJ/CF-4

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SJ/CF-4
KIND	MULTIGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE-10W40 SJ/CF-4 is a semi-synthetic multigrade engine oil of the latest generation, especially designed for the lubrication of the most 4-stroke gasoline and diesel engines and LPG engines of passenger cars. By the use of specially formulated ingredients, it meets the present specifications and requirements of car-engine builders. It has exceptionally low ash content.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	min 0,80	0,888
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	min 3,5	4-4,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	12,5-16,3	14,4
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	105,6
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 100	140
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-20	-32
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	225
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999	Min.7,5	9,5

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### Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

ASTM D 2896 B/98

## PRODUCT NAME: 10W40 API SL/CF

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SL/CF
KIND	MULTIGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE- 10W-40 SL/CF is a semi-synthetic multigrade engine oil produced with highest quality mineral oils and special synthetic additives. It protects the engine in all climatic conditions. It is designed to protect its viscosity during the entire oil life.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	min 0,80	0,888
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	min 3,5	4-4,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	12,5-16,3	14,2
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	94,5
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 100	156
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-20	-38
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	228
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999 ASTM D 2896 B/98	Min.8	9,5

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### Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

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## PRODUCT NAME: 15W40 API SG/CF

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SG/CF
KIND	MULTIGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE- 15W-40 is a multigrade engine oil suitable for diesel and gasoline engines of cars and vans. It is produced of paraffinic base oil and performance additives. It ensures very good performance for leaded and unleaded fuel engines under heavy working conditions.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	min 0,80	0,88
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	min 3,5	4-4,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	12,5-16,3	15,2
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	121,3
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 90	130
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-15	-26
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	245
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999 ASTM D 2896 B/98	Min.7	8,5

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: 20W50 API SG/CF

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SG/CF
KIND	MULTIGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE-20W-50 is developed for multi-stroke engines by blending high-quality base oils with special additives. It can be used at commercial and normal passenger cars, minibuses, minivans, commercial trucks and buses in all four seasons.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	min 0,80	0,893
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	min 4	4,5-5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	16,3-21,9	18,5
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	165,9
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 90	125
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-15	-30
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.220	232
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999 ASTM D 2896 B/98	Min.7	8

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: 20W50 SUPER DIESEL

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SG/CF-4/CF/CE/CD
KIND	MULTIGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE-20W-50 is developed for multi-stroke engines by blending high-quality base oils with special additives. It can be used at commercial and normal passenger cars, minibuses, minivans, commercial trucks and buses in all four seasons.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	min 0,80	0,891
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	min 4	4,5-5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	16,3-21,9	17,85
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	144
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 95	137
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-15	-28
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.220	232
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999 ASTM D 2896 B/98	Min.8	9

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: SAE 10 API SC/CD

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SC/CD
KIND	MONOGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE -10 is a general-purpose high-quality mineral oil. It functions perfectly at moderate temperature and load conditions. It is especially recommended for hydraulic systems of trucks, air compressors and sawing machines.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,875
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 1	1,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	Min.4,1	4,5
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	22,9
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 100	109
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-10	-33
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.190	204

Test results can vary upto 2-3% under different testing conditions.

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#### **Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: SAE 30 API SC/CD

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SC/CD
KIND	MONOGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE -30 is a multi-purpose mono-grade motor oil for use in gasoline and diesel engines. It has a high-quality mineral oil formulation which can work in all heavy working conditions.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,887
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 3	3,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	9,3-12,5	11,5
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	102,1
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 95	100
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-6	-15
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	228

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

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Number

## PRODUCT NAME: SAE 40 API SF/CD

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SF/CD
KIND	MONOGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE - 40 is a multi-purpose mono-grade motor oil for use in gasoline and diesel engines. It has a high-quality mineral oil formulation which can work in all working conditions.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,89
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 3,5	4-4,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	12,5-16,3	15
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	147,2
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 95	102
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-6	-9
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	250
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999 ASTM D 2896 B/98	Min.6	8,5

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### **Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

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Form Sequence Number

## PRODUCT NAME: SAE 50 API SF/CD

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TS-E-S/C
FAMILY	TS-E-SF/CD
KIND	MONOGRADE MOTOR OIL
TS	12330
SEMBLANCE	CLEAR AMBER

GL OIL SAE - 50 is a multi-purpose mono-grade motor oil for use in gasoline and diesel engines. This oil is especially suitable for heavy working conditions and in all four seasons due to its special formulation

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,888
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 4	4,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	16,3-21,9	18,62
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	187,1
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 90	111
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-6	-15
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.215	222
Total Base Number,TBN	mgKOH/g	TS 5655 ISO 3771 23.03.1999 ASTM D 2896 B/98	Min.6	8,5

Test results can vary upto 2-3% under different testing conditions.

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### **Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: ATF DEXRON II

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	DEXRON
FAMILY	DEXRON II
KIND	AUTOMATIC TRANSMISSION FLUID
TS	TSEK 9030
SEMBLANCE	CLEAR AMBER

GL OIL ATF DEXRON II is an automatic transmission fluid manufactured with high technology using special oils and additives. It can be safely used at passenger cars, automatic gearboxes and transmissions and gearboxes and heavy vehicles.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,874
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	-	RED
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	Min.5	7,5
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	42
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 125	147
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-15	-36
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.200	204

Test results can vary upto 2-3% under different testing conditions.

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: ATF DEXRON III

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	DEXRON
FAMILY	DEXRON III
KIND	AUTOMATIC TRANSMISSION FLUID
TS	TSEK 9030
SEMBLANCE	CLEAR AMBER

GL OIL ATF DEXRON III is a multi-purpose automatic transmission fluid developed for high performance by using special formulation of high-tech refined synthetic base oils and modern additives.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,875
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	-	RED
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	Min.5	7,3
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	39,3
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 125	152
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-20	-44
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.200	204

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### Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: SPECIAL 2T API TC

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE  
FAMILY  
KIND TWO STROKE ENGINE OIL  
TS TSEK 8982  
SEMBLANCE CLEAR AMBER

GL OIL SPECIAL 2T is a modern high-quality motor oil for two-stroke engines, prepared by mixing quality paraffinic oils with special additives. It can be also used in lawn mower, small electric generators and water pumps.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,8874
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 1,5	2,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	Min.7,5	10,75
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	92
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 85	101
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-10	-20
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.200	220

Test results can vary upto 2-3% under different testing conditions.

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### **Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: HYDRAULIC OIL HD 32

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	ISO VG 32
FAMILY	TS-L-HH
KIND	HYDRAULIC OIL
TS	TSEK 11158
SEMBLANCE	CLEAR AMBER

GL OIL HYDRAULIC OIL is developed with special base oils to use at all hydraulic systems using precision servo-valves at high pressure. It can be also used in air compressors and gearboxes.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,877
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 1,5	1,5-2
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	5,36
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	28,8-35,2	32
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 90	100
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-6	-24
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.160	212
ISO Degree	-	-	-	32

Test results can vary upto 2-3% under different testing conditions.

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: HYDRAULIC OIL HD 46

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	ISO VG 46
FAMILY	TS-L-HH
KIND	HYDRAULIC OIL
TS	TSEK 11158
SEMBLANCE	CLEAR AMBER

GL OIL HYDRAULIC OIL is developed with special base oils to use at all hydraulic systems using precision servo-valves at high pressure. It can be also used in air compressors and gearboxes.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,878
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 1,5	1,5-2
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	6,72
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	41,4-50,6	46
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 90	100
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-6	-19
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.180	220
ISO Degree	-	-	-	46

Test results can vary upto 2-3% under different testing conditions.

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: HYDRAULIC OIL HD 68

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE ISO VG 68  
FAMILY TS-L-HH  
KIND HYDRAULIC OIL  
TS TSEK 11158  
SEMBLANCE CLEAR AMBER

GL OIL HYDRAULIC OIL is developed with special base oils to use at all hydraulic systems using precision servo-valves at high pressure. It can be also used in air compressors and gearboxes.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,88
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 1,5	2-2,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	8,69
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	61,2-74,8	68
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 90	100
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-6	-19
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.180	220
ISO Degree	-	-	-	68

Test results can vary upto 2-3% under different testing conditions.

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**Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: GEAR OIL 80W90 API GL-5

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TSE-L-C-GL5
FAMILY	TSE-L-C-GL80W
KIND	TRANSMISSION OIL
TS	TSEK 11485
SEMBLANCE	CLEAR AMBER

GL OIL SAE 80W-90 is developed by combining high-tech base oils and resistant package additives. It is a high performance heavy-duty automotive gear oil, especially suitable for bevel and helical gears, axles and differentials, manual gearboxes and final drive units.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,889
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 3	3,5-4
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	Min. 7	16,8
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	169
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 85	106
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-10	-30
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.175	225

Test results can vary upto 2-3% under different testing conditions.

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#### **Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: GEAR OIL EP 90 API GL-4

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TSE-L-C-GL4
FAMILY	TSE-L-C-GL90
KIND	TRANSMISSION OIL
TS	TSEK 11485
SEMBLANCE	CLEAR AMBER

GL OIL SAE 90 is developed by blending paraffinic base oils with additives. It can be used at all gears that work under loads. It is recommended for gearboxes and differentials and industrial gears working at light load and low pressure

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,89
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 3,5	4-4,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	13,5-24	19
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	205
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 85	104
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-10	-21
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.175	230

Test results can vary upto 2-3% under different testing conditions.

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#### **Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance Date

Form Sequence Number

## PRODUCT NAME: GEAR OIL EP 140 API GL-4

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE	TSE-L-C-GL1
FAMILY	TSE-L-C-GL140
KIND	TRANSMISSION OIL
TS	TSEK 11485
SEMBLANCE	CLEAR AMBER

GL OIL SAE 140 is developed by blending paraffinic base oils with additives. It can be used at all gears that work under loads. It is recommended for gearboxes and differentials and industrial gears working at light load and low pressure.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	ACCEPTABLE RANGE	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	Min. 0,80	0,895
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Min. 4,5	5-5,5
Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	24-41	31,5
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	-	477
Viscosity Index	-	TS 1451 EN ISO 3104/21.10.1997	Min 85	95
Pour Point	°C	TS 1233 ISO 3016 /29.07.1997 (ASTM D 97/96a)	Max.-5	-18
Flash Point (Cleveland Open Cup Method)	°C	TS EN ISO 2592 /09.03.2006 (ASTM D 92/98a)	Min.180	235

Test results can vary upto 2-3% under different testing conditions.

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#### **Golteks Petrol ve Kimya San.ve Tic. Ltd.Şti.**

**Merkez:** Küçükbakkalköy Mah. Dereyolu Sokak No:3/2 Ataşehir İSTANBUL

**Fabrika:** Biga OSB, Balıklıçeşme Beldesi, 166 Ada 25 Parsel Biga ÇANAKKALE

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# TECHNICAL DATA SHEET

Form Number

Form Acceptance  
Date

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Number

## PRODUCT NAME: GRES G3

### TURKISH STANDARDS INSTITUTION SPECIFICATIONS

TYPE TSE-L-C-GL1  
FAMILY TSE-L-C-GL140  
KIND GRES G3  
TS TSEK 11484  
SEMBLANCE CLEAR

GL OIL GRES G3 is developed for maximum performance by blending high-quality base oils, calcium soap and special additives. It is suitable for heavy-duty applications due to its special chemical formulation.

PHYSICAL CHARACTERISTICS	UNIT	TEST METHOD	TEST RESULT
Density	gr/cm <sup>3</sup>	TS 1013 EN ISO 3675 15.04.2002(ASTM D 1298/99)	0,886
Colour	-	TS 1713 ISO 2049 26.01.1999 (ASTMD 1500/98)	Dark Yellow
Base Oil Kinematic Viscosity @100°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	10,2
Base Oil Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	TS 1451 EN ISO 3104 /07.04.1999 (ASTM D 445/97 ISO 3105)	98
Processed Penetration	mm	TS 1799 ISO 2137 / 20.04.2004TS (ASTM D-217 / 97)	265

Test results can vary upto 2-3% under different testing conditions.

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