

Automotive Lubricants

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Introduction

AL Raya Holding Group has firmly established itself as a Sole Distributor for automotive & power products for one of the leading manufacturers in Japan. With more than 400,000 line items, which include automotive and industrial spare parts in addition to various lubricants.

The Company is engaged in a broad spectrum of International trading activities. The main thrust of the Company is in the areas of Industrial Lubricants.

Over the past ten years, the Lubricants Division has developed Delta Oil into a patented and registered brand meeting OEM standards.

Taking a leap forward, Delta Oil has been successfully introduced to industrial markets both locally and internationally, providing complete integrated solutions for the lubricants industry.

Delta Oil's Blending Station which is based in RAK, UAE, has a production line meeting high quality standards with state of the art technology for producing engine oils and other lubricants.

Promoted as a brand, Delta is self owned and registered for Al Raya Holding Group in the State of Kuwait.

Al Raya Holding Group's success springs from the efforts of an excellent team of experienced professionals, a modern communication network and a management culture of high ethics which believes in giving excellent service to its customers in terms of quality, packaging, documentation and prompt delivery.

On the strength of its high quality and service, AL RAYA Holding Group has carved a niche for itself in the International arena.

AL RAYA Holding Group is always ahead of its competitors when it comes to providing consultancy services and up to date information on changing trends and developments in the international market and believes in partners in progress with its customers.



Automotive Lubricants

Delta Oils is involved in the manufacturing and marketing of the entire range of automotive lubricants incorporating the most recent and advanced technology and is acclaimed one of the best of its kind in the area.



NEW STORY BEGINS

DELTA ADVANCE

10W40 API SL/CF

INTRODUCTION

Delta Advance Low-friction motor oil with advance Synth-Technology, helps to save fuel, the special advance – Technology together with selected additives provide high lubrication safety, strong anti-wear protection, prevention of deposits, engine cleanliness, and excellent cold-start characteristics, Delta Advance SAE 10W40 can be used in gasoline and diesel engines (also supercharged), cars or commercial vehicles.

ADVANTAGES

- Excellent protection against wear, prolongs the engine life.
- Excellent thermal and high oxidation stability, thereby minimizes the oil thickening.
- Excellent inhibiting properties against rust, corrosion & varnish formations.
- Excellent detergency & dispersant to keep the engine relatively clean.
- Extremely shear stable viscosity index modifies to ensure the «stay- ingrade» viscosity level both during summer & winter.
- Excellent prevention of piston deposits and sludge formation.

APPLICATIONS

Ideal for new generation passenger cars, SUV & vans with normal aspirated or turbo charged gasoline & diesel engines.

Packing: Barrels - 210 litres, Packs - 4 & 1 litres



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• APPEARANCE	VISUAL	CLEAR TRANSPARENT
• COLOUR (Max)	ASTM D-1500	3
• KIN. VISCOSITY @100°C Cst	ASTM D-445	12.5 - 16.3
• VISCOSITY INDEX, (Min)	ASTM D-2270	110
• HIGH SHEAR VISCOSITY @150 cP (Min)	ASTM D-4683	2.9
• FLASH POINT °C (Min)	ASTM D-92	205
• POUR POINT °C (Max)	ASTM D-97	-33
• SULPHATED ASH % , (Max)	ASTM D-874	1.0
• TOTAL BASE NO	ASTM D-2896	6.5

DELTA TECHNO

20W50 API SL/CF

INTRODUCTION

Delta Techno is a superior quality and ultra high performance multi grade gasoline oil developed for use in engines operating under severe conditions. It is formulated with the premium quality mineral base stocks and ultra performance additives.

ADVANTAGES

- Excellent thermal and high oxidation stability, thereby minimizes the oil thickening.
- Excellent inhibiting properties against rust, corrosion & varnish formations.
- Excellent detergency & dispersant to keep the engine relatively clean.
- Extremely shear stable viscosity index modifies to ensure the «stay-ingrade» viscosity level both during summer & winter.
- Excellent prevention of piston deposits and sludge formation.

APPLICATIONS

Ideal for new generation passenger cars, SUV & vans with normal aspirated or turbo charged gasoline & diesel engines.

Packing: Barrels - 210 litres, Packs - 4 & 1 litres



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• APPEARANCE	VISUAL	CLEAR TRANSPARENT
• COLOUR (Max)	ASTM D-1500	3
• KIN.VISCOSITY @100 °C Cst	ASTM D-445	16.3 - 21.9
• VISCOSITY INDEX, (Min)	ASTM D-2270	110
• HIGH SHEAR VISCOSITY @150 cP (Min)	ASTM D-4683	3.7
• FLASH POINT °C (Min)	ASTM D-92	215
• POUR POINT °C (Max)	ASTM D-97	-24
• SULPHATED ASH % , (Max)	ASTM D-874	1.0
• TOTAL BASE NO	ASTM D-2896	6.5

DELTA PROLUBE

SAE 50 API-CF

INTRODUCTION

Delta Prolube Engine Oils are designed for naturally-aspirated turbo charged and super charged diesel and gasoline engines found in vehicles. Delta Prolube Engine Oils are designed for diesel powered vehicles in all major industries from Transporters and Mining to Construction Agriculture and Power Generation.

ADVANTAGES

- Reduces maintenance cost - High alkaline reserve ensures that corrosive acid formed by the combustion of the fuel sulphur is effectively neutralized, there by minimising corrosive wear without causing valve distress.
- Maintains high power output-superior thermal and oxidation stability assists the detergent/dispersant additive system in providing excellent control of high temperature deposits in areas such as the under crown of the piston and piston ring belt area, enabling piston rings to function efficiently.
- Prolongs oil change out periods-superior alkalinity retention characteristics maintain sufficiently high Base Number (BN) under all service conditions.
- Prolongs service intervals.

APPLICATIONS

- Medium speed two and four cycle rail road type diesel engines.
- Including the most recent high out put low oil consumption design whether in railroad, stationary or marine service.

Packing: Barrels - 210 Ltrs, Buckets/Pails - 20 Itres, Packs - 5 Itres, 4 Itres & 1 Itres



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• APPEARANCE	VISUAL	CLEAR TRANSPARENT
• COLOUR (Max)	ASTM D-1500	3
• KIN.VISCOSITY @100 °C Cst	ASTM D-445	16.3 - 21.9
• VISCOSITY INDEX, (Min)	ASTM D-2270	95
• HIGH SHEAR VISCOSITY @150 °C (Min) cP	ASTM D-4683	3.7
• FLASH POINT °C (Min)	ASTM D-92	235
• POUR POINT °C (Max)	ASTM D-97	-9
• SULPHATED ASH % , (Max)	ASTM D-874	1.0
• TOTAL BASE NO	ASTM D-2896	8.0

DELTA PROLUBE

15W40 API-CH4

INTRODUCTION

Delta Prolube Engine Oils are designed for naturally-aspirated turbo charged and super charged diesel and gasoline engines found in vehicles. Delta Prolube Engine Oils are designed for diesel powered vehicles in all major industries from Transporters and Mining to Construction Agriculture and Power Generation.

ADVANTAGES

- Prolongs engine life with an anti-wear additives system providing excellent protection against wear of critically loaded component under all operations.
- Reduces maintenance cost by using unique additives technology to disperse soot and waste maintaining clean engine in all service constructions.

APPLICATIONS

- All naturally-aspirated and turbo charged four stroke diesel engine oil using high and low sulphur fuels and four stroke gasoline engines.
- Commercial road transport including the latest electronically controlled engines.
- Stop-and-go vehicles in high soot loading services such as buses and collection truck.
- OFF high way vehicles and plant machinery including equipments for open cut & underground mining, quarrying and construction.
- Power generation sets.

Packing: Barrel - 210 litres, Buckets/Pails - 20 litres, Packs - 5, 4 & 1 litres



TYPICAL SPECIFICATIONS

CHARACTERISTICS	TEST METHOD	TEST VALUE
• APPEARANCE	VISUAL	CLEAR TRANSPARENT
• Kin. Viscosity @ 40 °C Cst	ASTM D-445	145 - 210
• Kin. Viscosity @ 100 °C Cst	ASTM D-445	16.3 -21.9
• Viscosity Index, Min	ASTM D-2270	110
• Flash Point °C Min	ASTM D-92	210
• Pour Point °C Min	ASTM D-97	- 27
• Sulphated, Ash, % Max	ASTM D-874	1
• Total Base No	ASTM D-2896	8.5

DELTA PROLUBE

15W40 API CF4

INTRODUCTION

Delta Prolube offers ultra-performance in increasing the life of the engines fitted in every heavy vehicles. It safeguards the engine against any internal damage. This oil also helps in smooth combustion process due to ideal oxidation and thermal stability. This oil is recommended for heavy vehicles operating at moderate to severe conditions, and also for heavy earth moving equipments used in construction sites.

ADVANTAGES

- Prolongs engine life with an anti wear additives systems providing excellent protection against wear of critically loaded component under all operation.
- Ensures easy cold starting due it high fluidity
- Contributes to the reduction of both fuel consumption and emissions.
- Good efficiency against bore polishing .
- Excellent service stability

APPLICATIONS

- Medium speed two and four cycle rail road type diesel engines.
- Including the most recent high out put low oil consumption design whether in railroad,stationary or marine service.

Packing: Barrels - 210 Ltrs, Buckets/Pails - 20 Itres, Packs - 5 Itres, 4 Itres & 1 Itres



TYPICAL SPECIFICATIONS

CHARACTERISTICS	TEST METHOD	TEST VALUE
• APPEARANCE	VISUAL	CLEAR TRANSPARENT
• KIN. VISCOSITY @ 40 °C Cst	ASTM D-445	115 - 160
• KIN. VISCOSITY @ 100 °C Cst	ASTM D-445	12.5 - 16.3
• VISCOSITY INDEX, MIN	ASTM D-2270	110
• FLASH POINT °C MIN.	ASTM D-92	210
• SULPHATED ASH,%, MAX	ASTM D-874	1
• TOTAL BASE NO.	ASTM D-2896	5.5

DELTA TRANSMATIC

ATF-DEXTRON III

INTRODUCTION

Delta Transmatic is a red dyed ATF designed for use in a modern automotive gear boxes where G M Dexron or Ford Mercon specification are required. This Dexron III supersedes Dexron II/D, Dexron II and Dexron Type A Suffix A specification.

ADVANTAGES

- Excellent function control for smooth shift action and prevents shudder, thereby minimizing the wear.
- Excellent low temperature fluidity and high temperature stability.
- Protection against rust, corrosion & sludge.
- Good seal compatibility.

APPLICATIONS

- Recommended to use in automatic gear boxes of passenger cars, trucks, off high way construction, mining and agriculture equipment, where G M Dexron III fluids are required.
- Suitable for power steering and hydraulic systems except where specialist fluids are required.
- * **Packing: Barrels - 210 litres, Packs - 4 & 1 litres.**



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• COLOUR	ASTM D-1500	LIGHT RED CLEAR
• KIN.VISCOSITY@40°C Cst	ASTM D-445	39.10
• KIN.VISCOSITY@100°C Cst	ASTM D-445	7.90
• VISCOSITY INDEX (Min)	ASTM D-2270	150.0
• FLASH POINT °C (Min)	ASTM D-92	170.0
• SP .GRAVITY @30°C	ASTM D-1298	0.845
• POUR POINT °C (Min)	ASTM D-97	-25
• CORROSION ,COPPER STRIP @100°C FOR 3 HOURS ,(Max)	ASTM D-130	1A

DELTA COOLMAX

Radiator Coolant

INTRODUCTION

A coolant is a fluid which flows through a device in order to prevent its over heating, transforming the heat forwarded by the device to the other device that utilize or dissipate it. Delta coolmax has a high thermal capacity, low viscosity and is chemically inert, neither causing nor promoting corrosion of the cooling efficiency.

ADVANTAGES

Delta coolmax is a high quality anti-freeze containing sophisticated anti-corrosion additives and is available in both concentrated and diluted form.

Packing: Barrel - 210 litres, Packs - 1 litres

APPLICATIONS

Delta Coolmax is a high quality anti-freeze containing sophisticated anti-corrosion additives. It is available in both concentrated and diluted forms.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• BOILING POINT °C (Min)	ASTM D-1120	155
• SPECIFIC GRAVITY @ 20 °C (Min)	ASTM D-1298	1.114
• FREEZING POINT OF WATER SOLUTION °C (Max)	ASTM D-97	
A) 30% (v/v)		- 14
B) 50% (v/v)		- 34
• PH OF 30% (V/V), WATER SOLUTION	ASTM D-1287	7 - 11
• RESERVED ALKALINITY	ASTM D-1121	Report

DELTA TRANSMATIC

ATF-DEXTRON III

INTRODUCTION

Delta Transmatic is a red dyed ATF designed for use in a modern automotive gear boxes where G M Dexron or Ford Mercon specification are required. This Dexron III supersedes Dexron II/D, Dexron II and Dexron Type A Suffix A specification.

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- Excellent function control for smooth shift action and prevents shudder, thereby minimizing the wear.
- Excellent low temperature fluidity and high temperature stability.
- Protection against rust, corrosion & sludge.
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- Suitable for power steering and hydraulic systems except where specialist fluids are required.
- * **Packing: Barrels - 210 litres, Packs - 4 & 1 litres.**



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• COLOUR	ASTM D-1500	LIGHT RED CLEAR
• KIN.VISCOSITY@40°C Cst	ASTM D-445	39.10
• KIN.VISCOSITY@100°C Cst	ASTM D-445	7.90
• VISCOSITY INDEX (Min)	ASTM D-2270	150.0
• FLASH POINT °C (Min)	ASTM D-92	170.0
• SP .GRAVITY @30°C	ASTM D-1298	0.845
• POUR POINT °C (Min)	ASTM D-97	-25
• CORROSION ,COPPER STRIP @100°C FOR 3 HOURS ,(Max)	ASTM D-130	1A

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TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• BOILING POINT °C (Min)	ASTM D-1120	155
• SPECIFIC GRAVITY @ 20 °C (Min)	ASTM D-1298	1.114
• FREEZING POINT OF WATER SOLUTION °C (Max)	ASTM D-97	
A) 30% (v/v)		- 14
B) 50% (v/v)		- 34
• PH OF 30% (V/V), WATER SOLUTION	ASTM D-1287	7 - 11
• RESERVED ALKALINITY	ASTM D-1121	Report

DELTA SUPERIOR

BRAKE FLUID DOT 3 & DOT 4

INTRODUCTION

Delta SUPERIOR brake and clutch fluid is a high boiling synthetic brakefluid containing antioxidants and corrosion inhibitors which provides excellent protection to the metallic components of the braking system. It is not a silicone based brakefluid.

ADVANTAGES

- Low temperature fluidity.
- Resistance to oxidation and corrosion.
- High temperature stability.
- Meets minimum wet boiling temp and dry boiling temperature requirement.

Note: All brakefluid should be kept clean and dry, free from dirt and water or it may cause system failure.

Careful handling is required when filling hydraulic systems. Combustible fluid. Paintwork may be affected.

APPLICATIONS

For Dot 3:

- In hydraulic brake system where Dot3, SAE J1703, ISO 4925, US Federal motor vehicle standards No. 116 requirement are specified.

For Dot 4:

- In hydraulic brake systems where Dot4, Dot3, FMVSS 116, SIS K2233.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	Dot 3	Dot 4
• COLOUR & APPEARANCE	Clear, homogenous, free from water, dirt, sediments,	1800
• Kin. Visc @ (-40 °C) cst max	1500	1.5
• Kin. Visc @ (100 °C) cst min	1.5	230
• Equilibrium Reflux Boiling point, (ERBP) °C	205	155
• Wet ERBP min	140	7.0 to 11.5
• pH value	7.0 to 11.5	

DELTA EXTREME 2T

2 STROKE ENGINE OIL

INTRODUCTION

Delta Extreme 2T is mineral oil for two stroke engines, specially selected to provide maximum protection to all key parts of 2 stroke engines especially the pistons, bearing and exhaust system.

ADVANTAGES

- Low exhausts smoke production
- Superior control against exhaust system blocking
- Preservation of power
- High quality anti-oxidation and antiwear properties.

APPLICATIONS

- All types of two- stroke gasoline engines used for 2stroke motorcycles,marine engines, mechanized farming and civil works (lawnmowers, tillers, and chainsaws, tamping machines
- Premix with gasoline, usually at the rate of 2% volume, with leaded or unleaded gasoline, or at the rate according to manufacturer`s requirement.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• COLOUR	ASTM D-1500	2.5
• KIN. VISCOSITY @ 40 °C Cst	ASTM D-445	70 - 90
• KIN. VISCOSITY @ 100 °C Cst	ASTM D-445	6.5 - 9.5
• VISCOSITY INDEX (Min)	ASTM D-2270	90.0
• FLASH POINT °C (Min)	ASTM D-92	70.0
• SP.GRAVITY @30°C	ASTM D-1298	0.845
• POUR POINT °C (Max)	ASTM D-97	- 15
• SULPHATED ASH % Wt (Max)	ASTM D-874	0.25

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- Premix with gasoline, usually at the rate of 2% volume, with leaded or unleaded gasoline, or at the rate according to manufacturer`s requirement.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• COLOUR	ASTM D-1500	2.5
• KIN. VISCOSITY @ 40 °C Cst	ASTM D-445	70 - 90
• KIN. VISCOSITY @ 100 °C Cst	ASTM D-445	6.5 - 9.5
• VISCOSITY INDEX (Min)	ASTM D-2270	90.0
• FLASH POINT °C (Min)	ASTM D-92	70.0
• SP.GRAVITY @30°C	ASTM D-1298	0.845
• POUR POINT °C (Max)	ASTM D-97	- 15
• SULPHATED ASH % Wt (Max)	ASTM D-874	0.25

DELTA SUPERIOR

BRAKE FLUID DOT 3 & DOT 4

INTRODUCTION

Delta SUPERIOR brake and clutch fluid is a high boiling synthetic brakefluid containing antioxidants and corrosion inhibitors which provides excellent protection to the metallic components of the braking system. It is not a silicone based brakefluid.

ADVANTAGES

- Low temperature fluidity.
- Resistance to oxidation and corrosion.
- High temperature stability.
- Meets minimum wet boiling temp and dry boiling temperature requirement.

Note: All brakefluid should be kept clean and dry, free from dirt and water or it may cause system failure.

Careful handling is required when filling hydraulic systems. Combustible fluid. Paintwork may be affected.

APPLICATIONS

For Dot 3:

- In hydraulic brake system where Dot3, SAE J1703, ISO 4925, US Federal motor vehicle standards No. 116 requirement are specified.

For Dot 4:

- In hydraulic brake systems where Dot4, Dot3, FMVSS 116, SIS K2233.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	Dot 3	Dot 4
• COLOUR & APPEARANCE	Clear, homogenous, free from water, dirt, sediments,	1800
• Kin. Visc @ (-40 °C) cst max	1500	1.5
• Kin. Visc @ (100 °C) cst min	1.5	230
• Equilibrium Reflux Boiling point, (ERBP) °C	205	155
• Wet ERBP min	140	7.0 to 11.5
• pH value	7.0 to 11.5	

DELTA EXTREME 2T

2 STROKE ENGINE OIL

INTRODUCTION

Delta Extreme 2T is mineral oil for two stroke engines, specially selected to provide maximum protection to all key parts of 2 stroke engines especially the pistons, bearing and exhaust system.

ADVANTAGES

- Low exhausts smoke production
- Superior control against exhaust system blocking
- Preservation of power
- High quality anti-oxidation and antiwear properties.

APPLICATIONS

- All types of two- stroke gasoline engines used for 2stroke motorcycles,marine engines, mechanized farming and civil works (lawnmowers, tillers, and chainsaws, tamping machines
- Premix with gasoline, usually at the rate of 2% volume, with leaded or unleaded gasoline, or at the rate according to manufacturer`s requirement.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• COLOUR	ASTM D-1500	2.5
• KIN. VISCOSITY @ 40 °C Cst	ASTM D-445	70 - 90
• KIN. VISCOSITY @ 100 °C Cst	ASTM D-445	6.5 - 9.5
• VISCOSITY INDEX (Min)	ASTM D-2270	90.0
• FLASH POINT °C (Min)	ASTM D-92	70.0
• SP.GRAVITY @30°C	ASTM D-1298	0.845
• POUR POINT °C (Max)	ASTM D-97	- 15
• SULPHATED ASH % Wt (Max)	ASTM D-874	0.25

DELTA SUPERIOR

BRAKE FLUID DOT 3 & DOT 4

INTRODUCTION

Delta SUPERIOR brake and clutch fluid is a high boiling synthetic brakefluid containing antioxidants and corrosion inhibitors which provides excellent protection to the metallic components of the braking system. It is not a silicone based brakefluid.

ADVANTAGES

- Low temperature fluidity.
- Resistance to oxidation and corrosion.
- High temperature stability.
- Meets minimum wet boiling temp and dry boiling temperature requirement.

Note: All brakefluid should be kept clean and dry, free from dirt and water or it may cause system failure.

Careful handling is required when filling hydraulic systems. Combustible fluid. Paintwork may be affected.

APPLICATIONS

For Dot 3:

- In hydraulic brake system where Dot3, SAE J1703, ISO 4925, US Federal motor vehicle standards No. 116 requirement are specified.

For Dot 4:

- In hydraulic brake systems where Dot4, Dot3, FMVSS 116, SIS K2233.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	Dot 3	Dot 4
• COLOUR & APPEARANCE	Clear, homogenous, free from water, dirt, sediments,	1800
• Kin. Visc @ (-40 °C) cst max	1500	1.5
• Kin. Visc @ (100 °C) cst min	1.5	230
• Equilibrium Reflux Boiling point, (ERBP) °C	205	155
• Wet ERBP min	140	7.0 to 11.5
• pH value	7.0 to 11.5	

DELTA EXTREME 2T

2 STROKE ENGINE OIL

INTRODUCTION

Delta Extreme 2T is mineral oil for two stroke engines, specially selected to provide maximum protection to all key parts of 2 stroke engines especially the pistons, bearing and exhaust system.

ADVANTAGES

- Low exhausts smoke production
- Superior control against exhaust system blocking
- Preservation of power
- High quality anti-oxidation and antiwear properties.

APPLICATIONS

- All types of two- stroke gasoline engines used for 2stroke motorcycles,marine engines, mechanized farming and civil works (lawnmowers, tillers, and chainsaws, tamping machines
- Premix with gasoline, usually at the rate of 2% volume, with leaded or unleaded gasoline, or at the rate according to manufacturer`s requirement.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	METHOD	TEST VALUE
• COLOUR	ASTM D-1500	2.5
• KIN. VISCOSITY @ 40 °C Cst	ASTM D-445	70 - 90
• KIN. VISCOSITY @ 100 °C Cst	ASTM D-445	6.5 - 9.5
• VISCOSITY INDEX (Min)	ASTM D-2270	90.0
• FLASH POINT °C (Min)	ASTM D-92	70.0
• SP.GRAVITY @30°C	ASTM D-1298	0.845
• POUR POINT °C (Max)	ASTM D-97	- 15
• SULPHATED ASH % Wt (Max)	ASTM D-874	0.25

DELTA EXTREME 2T

2 STROKE ENGINE OIL

INTRODUCTION

Delta Extreme 2T is mineral oil for two stroke engines, specially selected to provide maximum protection to all key parts of 2 stroke engines especially the pistons, bearing and exhaust system.

ADVANTAGES

- Low exhausts smoke production
- Superior control against exhaust system blocking
- Preservation of power
- High quality anti-oxidation and antiwear properties.

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DELTA SUPERIOR

BRAKE FLUID DOT 3 & DOT 4

INTRODUCTION

Delta SUPERIOR brake and clutch fluid is a high boiling synthetic brakefluid containing antioxidants and corrosion inhibitors which provides excellent protection to the metallic components of the braking system. It is not a silicone based brakefluid.

ADVANTAGES

- Low temperature fluidity.
- Resistance to oxidation and corrosion.
- High temperature stability.
- Meets minimum wet boiling temp and dry boiling temperature requirement.

Note: All brakefluid should be kept clean and dry, free from dirt and water or it may cause system failure.

Careful handling is required when filling hydraulic systems. Combustible fluid. Paintwork may be affected.

APPLICATIONS

For Dot 3:

- In hydraulic brake system where Dot3, SAE J1703, ISO 4925, US Federal motor vehicle standards No. 116 requirement are specified.

For Dot 4:

- In hydraulic brake systems where Dot4, Dot3, FMVSS 116, SIS K2233.



TYPICAL SPECIFICATIONS

CHARACTERISTICS	Dot 3	Dot 4
• COLOUR & APPEARANCE	Clear, homogenous, free from water, dirt, sediments,	1800
• Kin. Visc @ (-40 °C) cst max	1500	1.5
• Kin. Visc @ (100 °C) cst min	1.5	230
• Equilibrium Reflux Boiling point, (ERBP) °C	205	155
• Wet ERBP min	140	7.0 to 11.5
• pH value	7.0 to 11.5	

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