



Universal Synthetic Dual Clutch (DCT)



Universal Synthetic Dual Clutch (DCT) Transmission Fluid

AMALIE® Universal Synthetic Dual Clutch (DCT) Transmission Fluid is designed for use in Dry-Dual Clutch Transmissions, Wet-Dual Clutch Transmissions (DCT) and direct-shift gearboxes (DSG). Employing the latest additive technology, **AMALIE** Universal Synthetic Dual Clutch (DCT) Transmission Fluid maintains essential frictional properties for all synchronizers, bearings and wet clutches and provides excellent component protection and enhanced service reliability. **AMALIE** Universal Synthetic Dual Clutch (DCT) Transmission Fluid is also designed to exceed the requirements of High Performance Automobiles with engines producing 500 plus horsepower such as Audi, BMW, Ferrari, Mercedes Benz, Porsche, and many others.

AMALIE® Universal Synthetic Dual Clutch (DCT) Transmission Fluid exceeds API GL-4 requirements and is suitable for many mechanical gearboxes requiring gear oil with a very low viscosity grade such as SAE 75W as well as those requiring a "Synchromesh" type fluid. **AMALIE** Universal Synthetic DCT Fluid will not harm bronze metals used in synchronizer designs.

AMALIE® Universal Synthetic Dual Clutch (DCT) Transmission Fluid may also be used in many standard planetary gear transmissions manufactured by American, European and Asian OEMs.

*Before use always refer to the owner's manual or handbook of the vehicle.

Performance Benefits

- Fuel economy performance by optimizing friction.
- Industry leading anti-shudder performance.
- Protects gears both compact and heavily loaded.
- Smoother shifting.
- Improved cold temperature response.
- Excellent anti-wear protection.
- Outstanding oxidative stability.
- Exceptional low temperature fluidity.
- Extended corrosion inhibition.
- Remarkable foam resistance.

Typical Physical and Chemical Properties

API Gravity.....	34.25
Density, (lbs./gal).....	7.110
Kinematic Viscosity @100°C, cSt.....	7.250
Kinematic Viscosity @40°C, cSt.....	34.0
Viscosity Index.....	185
Color.....	Amber
Brookfield Viscosity, cP @ (°C).....	8000
Flash Point, °C (°F).....	195 (383)
Pour Point, °C (°F).....	-54 (-65)

*Typical values are listed. Variations not affecting the performance of this fluid may occur during production however; these variations will not fall outside of set specification parameters.

RECOMMENDATIONS

Only mix with similar products
Refer to manufacturer's recommendations for changing the fluid and adapt as justified.
Before use always refer to the owner manual or handbook of the vehicle.



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Some performance levels are limited by viscosity grades. Please consult the Performance Application Chart, the Inspection Data Table for the appropriate product or contact your Regional Manager for more complete information and recommendations. Consult your Regional Manager for specific pack sizes and product availability.

PERFORMANCE APPLICATION CHART (DCT APPLICATION)

*The chart below lists suitable for use applications

- Audi G 052 182 (TL 52 182), G 052 512 (75W GO Dry Clutch)
- Audi G 052 513 (DSG), TL 052 529
- BMW DCTF-1 Part Number 83 220 440 214, 83 22 2 148 578, 83 22 2 148 579, 83 22 2 147 477
- Citroën PSA Part Number 9734.S2
- Ferrari TF DCT-F3
- Fiat 9.55550-MZ-6 (75WGO) Tutela Transmission Gearforce (Dry Clutch), BOT 341
- Ford WSS-M2C-936-A, WSS-M2C-200-D2 (Power Shift dry clutch XT-11-QDC), BOT 341
- Mercedes Benz MB 236.21 (001 989 85 03), MB 236.25
- Mitsubishi Diamond Queen SSTF-1 (MZ320065)
- Nissan Genuine Transmission Oil R35 Special, Ford WSS M2C-936-A
- Peugeot PSA Part Number 9734.S2
- Porsche 999.917.080.00 (FFL-3), Part Number 043 207 29 (FFL-3), 043 207 30 (FFL-3),
- Renault BOT 450, EDC Transmission (Dry Clutch)
- Seat G 052 182 (TL 52 182), G 052 512 (75W GO Dry Clutch)
- Seat G 052 513 (DSG), TL 052 529
- Skoda G 052 182 (TL 52 182), G 052 512 (75W GO Dry Clutch)
- Skoda G 052 513 (DSG), TL 052 529
- Volvo BOT 341, #1161838, 1161839
- VW G 052 182 (TL 52 182), G 052 512 (75W GO Dry Clutch)
- VW G 052 513 (DSG), TL 052 529

PERFORMANCE APPLICATION CHART (SYNCHROMESH APPLICATIONS)

*The chart below lists suitable for use applications

- GM 9985648, Part #12345349
- GM 9986105
- GM 9985535
- Chrysler MS-9224, Part#4874464
- Chrysler MS-9417
- GM 12345577
- GM 12377916
- GM 1052931
- Chrysler 4874465

PERFORMANCE APPLICATION CHART (MECHANICAL GEARBOX)

*The chart below lists suitable for use applications

- Audi G 052 178 (75W GO), G 052 726 (75W GO), G 052 798 (SAE 70W75), G 052 171 (SAE 70W75)
- Audi G 055 532 (75W-80 GL-4)
- BMW MTF-LT-5 (75W-80), Part Number 83 22 2167 666
- Seat (see Audi)
- Skoda (see Audi)
- VW (see Audi)
- API GL-4

PERFORMANCE APPLICATION CHART (ATF APPLICATIONS)

*The chart below lists suitable for use applications

- ATF Type A-Suffix A
- Aisin Warner AW-1, JWS 3309, 3314, 3317, 3324
- Allison C-3, C-4
- American Motors ATF+3(MS7176-E)
- Audi G-055-025-A2, G-052-162-A1, A2, G-052-990-A2,
- Audi G-055-005-A2, G-055-162-A2,
- BMW ETL-7045E (3 Series), BMW 5 Series, LA 2634
- BMW LT 71141, 83 22 0 142 516
- Caterpillar Power Shift TO-2
- Esso LT 71141 (Daewoo LT 71141)
- Fiat Type T-IV
- GM Dexron® II, II-D, III, III-G, III-H, TASA
- GM Transfer case 12378396, 12378508
- Honda ATF-Z1, DW-1
- Hyundai SP-II, SP-III, SP-IV, SPH-IV, NWS-9638,
- Hyundai SPH-IV RR, SP-IV M, JWS 3314, 3317
- Idemitsu K17, Jatco 3100 PL085, ATF Red 1
- Infinity, Matic-D, Matic-J, Matic-K, Matic-S, Matic-W

- Isuzu Besco, ATF -II, ATF-III (also see Aisin Warner)
- Jaguar LT71141, ATF 3403
- JASO M315 Type 1-A, 1-A-LV
- Jatco 3100 PL085
- Jeep ATF+3, ATF+4, AS 68 RC (T-IV)
- JWS 3309, JWS 3314, JWS 3317, JWS 3324
- Kia SP-II, SP-III, SP-IV, ATF Red 1 (see JWS)
- Lexus Type T, T-II, T-III, T-IV, WS (JWS 3324)
- MAN 339 A,F, V1, V2, Z1, Z2, Z3
- Mazda ATF-M III, ATF M-3, ATF-MV, F-1
- Mazda V (XT-9-QMM5, FNR 5)
- MB 236.1,236.2,236.3,236.7,236.81,236.9
- MB 236.11,236.12(NAG1/2),236.14(Sprinter)
- MB 236.15, 236.41, 236.81, 236.10
- Mini Cooper T-IV (see also BMW)
- Mitsubishi Diamond SP II, SP III, SP-IV,
- Mitsubishi Dia Queen J2,
- Mitsubishi ATF-J3 / Dia Queen J3 / ATF-PA
- Mopar AS 68 RC (T-IV)
- Nissan Matic-D, Matic-J, Matic-K, Matic-S, Matic-W,
- Nissan 402
- Opel 19 40 700, 19 40 707, 19 40 767
- Peugeot ZF 4HP200, AL-4
- Porsche ZF 5HP19FL, ATF 3403-M115, T-IV
- Renault DP-0
- Renk-Doromat
- SAAB JWS 3309, 93 165 146, 93 165 147
- Scion (all vehicles*)
- Shell 3403
- Subaru ATF, AT-HP
- Suzuki ATF 3309, 3314, 3317
- Toyota Type T, T-II, T-III, T-IV* Type D-2
- Toyota WS (JWS 3324)
- Vickers M-2950-S, I-286-S
- Voith G607 (55.6335.XX)
- Volvo 97340, 97341, 1161540, 1161640
- Volvo 1161621, 31256774, 31256675, T-IV*
- VW G-055-025-A2, G-052-162-A1, A2
- VW G-052-990-A2
- VW G-055-005-A2, G-055-162-A2, G-060-162-A2
- ZF S671 090 255 (6 Speed)
- ZF TE-ML 03D,04D, 05L, 14A, 16L, 16M, 17C, 21L,
- ZF TE-ML 09, 11 (3/4/5 speed)

* Not Recommended for Use: CVT (see Universal Synthetic CVT Fluid)

* Not Recommended for Use AWTF80-SC or MY 2008-2010 V70

PERFORMANCE APPLICATION CHART (TRANSFER CASES)

*The chart below lists suitable for use applications

- Ford M
- Ford XL-12
- GM IID, IIH
- GM Auto Trak II (12378508)
- Mercedes GL-450 (ATF 3403)

PERFORMANCE APPLICATION CHART (POWER STEERING)

*The chart below lists suitable for use applications

- Chrysler MS-1872, MS-5931 P/N 04883077
- Chrysler MS-9602, MS-10838 P/N 05142896AA
- Ford M2C195-A
- GM P/N 89021184, 1052884(GM 9985010)
- GM P/N 12345866 (GM 9985835)
- Hyundai PSF-3
- Kia PSF-3
- Mercedes Benz 236.3 (P/N 000 989 88 03)
- Mitsubishi PS Fluid, Diamond SP-III
- Nissan PSF-II
- Saab P/N 45 30 09 800
- Subaru P/N K0209A0080
- Toyota PSF Type EH P/N 008886-01
- ZF TE-ML 09

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The data presented herein are believed to be accurate; however, AMALIE OIL COMPANY shall not be liable for its content and makes no warranty with respect thereto.