

WHO WE ARE

ADDILEX Co. is a professional Lubricant Additive manufacturer integrating R&D center, production, sales and service units with more than 10 years of experience. We are focusing on various Lubricant Additive Components & Additive Packages including Engine Oil Packages, TBN Booster 400, ZDDP, Antioxidant, Rust Preventative, Detergent, Ashless Dispersant Components. Our Additive Package products widely cover the Vehicles with 4T/2T Motor, Hydraulic, Gear, etc..

The company has professional R&D Center, production unit, Packing & storage system. With powerful technical force, establish the leading position in domestic additive industry, introduce advanced measuring equipment and testing machine continuously to meet the development of production. Provide "OEM" packing for different clients. Possess independent warehouse to ensure the classification of finished products. Owns specialized transport team to guarantee the timely and safely delivery.

Our vision:

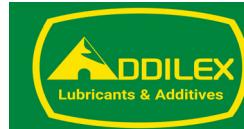
Quality stability and continuity assurance.

Our Mission:

Building relationships to achieve sustainable and ethical growth through a culture of quality and innovation.



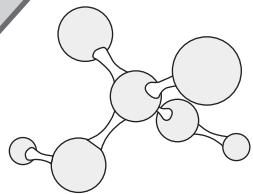
Components



ADDILEX

ADDILEX C-339

Ash-free Antioxidant



Product introduction

ADDILEX C-339 is a kind of multipurpose ash-free additive. It not only boasts outstanding antioxidation performance, but also has great abrasion resistance and extreme pressure properties. Meanwhile, it has excellent compatibility with other additives.

Applications

ADDILEX C-339 can be used for steam turbine oil, hydraulic oil, gear oil, internal combustion engine oil and other types of oils for the improvement of their anti-oxidation and abrasion resistance. It's also an effective extreme-pressure additive for lubricating grease.

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|--|--------------------------------|-------------|
| Appearance | Light brown transparent liquid | Visually |
| Density (20 °C), kg/m ³ | 1050 -1100 | ASTM D 4052 |
| Kinematic Viscosity @100°C, mm ² /s | 13.5-17 | ASTM D 445 |
| Nitrogen Content, % | 6.3-7 | ASTM D 4951 |
| Sulfur Content, % | 26.5-32.5 | ASTM D 4951 |
| Flash Point , °C | ≥ 170 | ASTM D 92 |
| Thermal decomposition temperature, °C | ≥ 240 | DTA |

Treat rates

Treat rates depend upon application and performance requirements

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

- Can be transported by truck, railway or ocean shipping.
- Storage and transport temperature shall not exceed 45 °C, has storage life of 3 years.
- It is non-toxic and non-corrosive, can be thoroughly washed out with detergent in case of skin contact.

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Website: www.addilex.com

Tehran office

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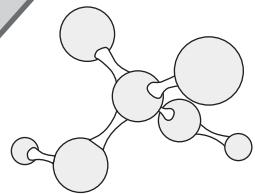
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ADDILEX C-320

DISPERSANT



Product introduction

ADDILEX C-320 is a dispersant polyisobutylene double succimide used for blending cylinder oil for low-speed marine engine with outside guide and high-quality engine oil, especially environment-friendly internal combustion engine oil. It is red or brown liquid.

CHARACTERISTICS:

- Excellent low-temperature dispersion performance
- High-temperature stability
- Free of chlorine, conforming to environmental requirements
- Provide the lubricant with good detergency of sludge and ash
- Effectively inhibit the generation of coke
- Preserve alkalinity well

Applications

Use for blending high quality engine oil

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|---|---------------|-------------|
| Density (20 °C), Kg/m ³ | 905-955 | ASTM D 4052 |
| Flash Point, °C | ≥170 | ASTM D 92 |
| Kinematics Viscosity @100°C, mm ² /s | 150-250 | ASTM D 445 |
| TBN, mg KOH/g | 19-22 | ASTM D 2896 |
| Nitrogen, % | 1.1-1.3 | ASTM D 5291 |

Treat rates

The treat rates in oil is 2.0-4.0%.

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

- Keep the temperature not higher than 60°C. For long-term storage the suggested temperature is lower than 50°C. The dry, clean and ventilating warehouse is recommended.

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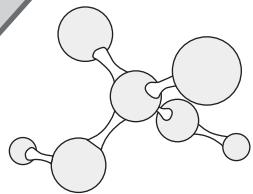
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ADDILEX C-321

ASHLESS DISPERSANT



Product introduction

ADDILEX C-321 is a boronized high molecular weight ashless dispersant prepared from high reactive isobutylene. It doesn't contain chlorine.

Special features:

- Excellent dispersion of oil asludge at low temperature
- Excellent soot dispersibility
- Good detergency at high temperature
- Free of chlorine
- Antioxidation property and abrasion resistance

Applications

Used for blending API SG and higher grade gasoline engine oils

Used for blending API CF-4 and higher grade diesel engine oils

Particularly suitable for blending environment-friendly engine oils

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|--|----------------------|-------------|
| Appearance | Clear viscous liquid | Visual |
| Density (20 °C), kg/m ³ | 900-933 | ASTM D 4052 |
| Kinematics Viscosity @100 °C, mm ² /s | 300-400 | ASTM D 445 |
| Flash Point, °C | ≥180 | ASTM D 92 |
| TBN, mg KOH/g | 22.35 | ASTM D 2896 |
| Nitrogen, % | > 1 | ASTM D 5291 |
| Boron, ppm | 4500 | ASTM D 4951 |

Treat rates

The treat rate : 1.0-4.0, mass%

Packing

- Bulk ■ IBC ■ Drum

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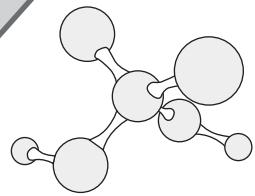
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ADDILEX C-323

N-Molybdenum Compound



Product introduction

ADDILEX C-323 is an oil-soluble, liquid and N-containing organic Molybdenum lubricant additive. This product is manufactured through up-to-date chemical processing.

Applications

It can be engineered into lubricating oils and greases to significantly enhance their anti-wear and friction reducing performance. Additionally, it shows good high temperature anti-oxidation property and low treatment level of this product into lubricants can bring them exceptional performance and high fuel economy.

Technical indexes

| ITEM | TYPICAL VALUE |
|--|--|
| Chemical component | N-containing organic Molybdenum |
| Appearance | Breen liquid |
| Density (15.6 °C), kg/m ³ | 1028 |
| Kinematics Viscosity @100 °C, mm ² /s | 7.7 |
| Flash point, °C | 187 |
| Molybdenum, ppm | 58,850 |
| Phosphorus, ppm | 51,970 |
| Sulfur, % | 13.7 |
| Nitrogen, ppm | 6200 |
| Compatibility | Well compatible with mineral and synthetic oils and insoluble in water |

Treat rates

| | |
|---------------------------------|----------|
| Engine oils and industrial oils | 0.1-0.7% |
| Lubricating greases | 1-3% |

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

Like common chemicals, special safety measures are not required.

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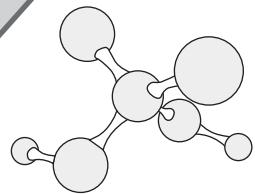
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ADDILEX C-340

Zinc (ZDDP)



Product introduction

ADDILEX C-340 is Zinc Diethyl Primary Alkyl Dithiophosphate. This product features excellent oxidation resistance, corrosion resistance, and anti-wear and extreme pressure properties, particularly high thermal stability, and favorable oil solubility, additive compatibility, and resistance to emulsification.

Applications

It can be used in blending diesel engine oils, or compounded with other additives to apply in anti-wear hydraulic oils.

Technical indexes

| ITEM | Quality indicator | TEST METHOD |
|--|--|-------------|
| | Class-A Acceptable quality | |
| Appearance | Light yellow to amber transparent liquid | Visual test |
| Color number, no more than | 2-2.5 | ASTM D 1500 |
| Density (20 °C) kg/m ³ | 1060-1150 | ASTM D 4052 |
| Kinematic viscosity @100°C, mm ² /s | Report | ASTM D 445 |
| Flash point, °C, no less than | 180 | ASTM D 92 |
| Sulfur, % | 12.0-18.0 | ASTM D 4951 |
| Phosphorus, % | 9.5-10 | ASTM D 4951 |
| Zinc, % | 10.8-11 | ASTM D 4951 |
| pH value, no less than | 5.3-5.8 | annex A |
| Moisture, % , no more than | 0.03-0.09 | ASTM D 95 |
| Mechanical admixture, % , no more than | 0.07 | AM-S90-009 |

Treat rates

The treat rates is 0.5%-3.0% when adding this product into oil

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

- For short-term storage and transportation, the temperature of the product shall not surpass 75°C; and for long-term storage it shall not surpass 45°C.
- The product is offered with a guarantee period of two years.

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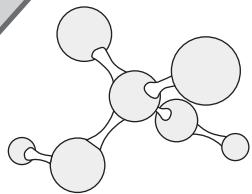
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ADDILEX C-400

TBN400 Booster



Product introduction

ADDILEX C-400 With long-chain alkyl benzene sulfonic acid as a main raw material, super overbased synthetic calcium sulfonate is prepared by neutralization and super high alkalization reaction. The product has excellent alkaline storage property, good oil solubility and strong acid neutralization capability, and it can immediately neutralize organic acid and inorganic acid in oil; meanwhile it also has excellent high-temperature detergency and thermal stability.

Applications

It is a preferred additive for preparing over-based marine cylinder oil and engine oil.

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|---|--------------------------|-------------------|
| Appearance | Red-brown viscous liquid | Visual Inspection |
| Flash Point, °C | ≥180 | ASTM D 92 |
| Kinematic Viscosity @ 100 °C mm ² /s | ≥130 | ASTM D 445 |
| Density(20 °C), kg/m ³ | 1150-1250 | ASTM D 4052 |
| TBN, mg KOH/g | 374-415 | ASTM D 2896 |
| Calcium, % | 16.0-17.5 | ASTM D 4951 |
| Sulfur, % | 1.2-2.0 | ASTM D 2622 |
| Water, % | ≤0.2 | ASTM D 95 |
| Magnesium, ppm | 950 | ASTM D 4951 |

Treat rates

Treat rates depend upon application and performance requirements

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

- For short-term storage and transportation, the temperature of the product shall not surpass 75°C; for long-term storage it shall not surpass 45°C. The product is offered with a guarantee period of two years.
- In case of accidental contact with skin, wash it off thoroughly with water and detergents.

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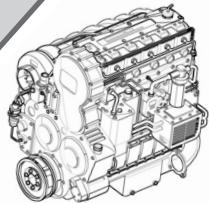
Packages



ADDILEX

ADDILEX D-520

Diesel Engine Oil Additive Package



Product introduction

ADDILEX D-520 is a compound of zinc-dithiophosphate, detergent, dispersant and anti-oxidant. It is primarily used in blending various low-grade and middle-grade lubricant oils with very low dosage.

Applications

ADDILEX D-520 can meet the requirements of CD,CC and SC/CC grade oils.

Treat rates

| Performance Levels | Mono-Grade, % | Multi-Grade, % |
|--------------------|---------------|----------------|
| CD/CF | 5 | 5.4 |
| CC/SC | 2.5 | 2.8 |
| CB/SB | 1.7 | 1.65 |

Technical indexes

| ITEM | TYPICAL VALUE |
|---|---------------|
| Density (20 °C), kg / m ³ | 1050 |
| Kinematic Viscosity @100 °C, mm ² /s | 75 |
| Flash Point, °C | Min 170 |
| TBN, mg KOH/g | 195-215 |
| Calcium, % | 6.9-8 |
| Zinc, % | 1.8-2.3 |
| Phosphorus, % | 1.5-1.8 |

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

- **storage:** the maximum handling and unloading temperature is 60°C; it is recommended that for long term storage the temperature should not exceed 50°C.
- **transport information:** the product is classified as not dangerous as far as naval, rail and road transportation is concerned.

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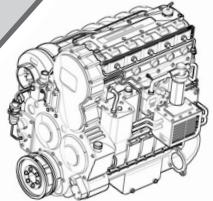
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ADDILEX D-540

CI-4, CH-4 ,CF-4, CD, SC/CC
Engine oil Additive



Product introduction

ADDILEX D-540 is an all-purpose engine oil additive package with the main components of high based synthetic salt sulfonate and ash-less dispersant.

Applications

ADDILEX D-540 is primarily used in blending various lubricating oils, such as CI-4, CH-4 ,CF-4, CD, SC/CC etc.

Treat rates

| Performance level | Multi/Mono | Treat rate % |
|-------------------|------------|--------------|
| CI-4 | Multi | 11 |
| CH-4 | Multi | 10.6 |
| CF-4 | Multi/Mono | 8.5 |
| CD | Multi/Mono | 5.3 |
| CC | Multi/Mono | 2 |

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|---|---------------|-------------|
| Density (20 °C), kg/m ³ | 970-1010 | ASTM D 4052 |
| Kinematic Viscosity @100 °C, mm ² /s | 120 | ASTM D 445 |
| Flash Point, °C | Min 170 | ASTM D 92 |
| TBN, mg KOH/g | 90-110 | ASTM D 2896 |
| Calcium, % | 3.5-4.1 | ASTM D 4951 |
| Zinc, % | 0.9-1.4 | ASTM D 4951 |
| Phosphorus, % | 0.8-1.2 | ASTM D 4951 |
| Molybdenum, ppm | 280-430 | ASTM D 4951 |
| Nitrogen, % | 0.52-0.62 | ASTM D 5291 |

Packing

■ Bulk ■ IBC ■ Drum

HANDLING INFORMATION

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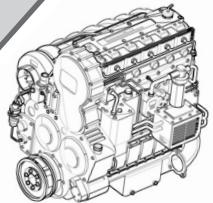
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ADDILEX G-720

SF, SE, SC/CC Engine oil Additive



Product introduction

ADDILEX G-720 is primarily used in blending various low-grade and middle-grade lubricating oils with very low dosage.

Applications

ADDILEX G-720 can meet the requirements of SF, SE, SC, and CC grade oils. The product is brown liquid.

Treat rates

| Performance level | Mono-grade | Multi-grade |
|-------------------|------------|-------------|
| SC/CC | 1.8% | 1.8% |
| SD | 3.1% | 3.1% |
| SE | 3.3% | 3.3% |
| SF | 3.5% | 3.5% |

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|---|---------------|-------------|
| Density (20 °C), kg/m ³ | 1100 | ASTM D 4052 |
| Kinematic Viscosity @100 °C, mm ² /s | 130 | ASTM D 445 |
| Flash Point, °C | Min 170 | ASTM D 92 |
| TBN, mg KOH/g | 100-130 | ASTM D 2896 |
| Calcium, % | 4.5-5.1 | ASTM D 4951 |
| Zinc, % | 2.3-2.9 | ASTM D 4951 |
| Phosphorus, % | 2.1-2.45 | ASTM D 4951 |
| Nitrogen, % | 0.35-0.55 | ASTM D 5291 |

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

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- **transport information:** the product is classified as not dangerous as far as naval, rail and road transportation is concerned.

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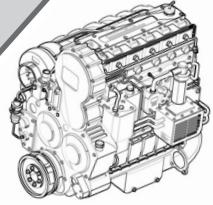
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ADDILEX G-730

SL,SJ,SG Engine Oil Additive package

Product introduction

ADDILEX G-730 is the excellent additive package for the efficient formulation of passenger car oil. This product is formulated with high quality Magnesium sulfonate, Calcium sulfonate and Boronized ashless dispersant, Oxidation & Corrosion inhibitor and high-temperature assistant antioxidant.

Applications

ADDILEX G-730 is specifically designed to provide basic API performance claims from SL, SJ, SG.

Treat rates

| Performance Level | Treat rate % |
|-------------------|--------------|
| SL | 6.5 |
| SJ | 5.9 |
| SG | 4.0 |

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|--|---------------------------|-------------|
| Appearance | Brownish red clear liquid | Visual |
| Density (20°C), kg/m ³ | 950-1050 | ASTM D 4052 |
| Flash point, °C | Min 170 | ASTM D 92 |
| Kinematic Viscosity @100°C, mm ² /s | 105 | ASTM D 445 |
| Phosphorus, % | 1.1-1.5 | ASTM D 4951 |
| Calcium, % | 3.65 - 4.15 | ASTM D 4951 |
| TBN, mg KOH/g | 95-115 | ASTM D 2896 |
| Zinc, % | 1.25-1.65 | ASTM D 4951 |
| Nitrogen, % | 0.65 - 0.75 | ASTM D 5291 |
| Molybdenum, ppm | 400-800 | ASTM D 4951 |

Packing

■ Bulk ■ IBC ■ Drum

HANDLING INFORMATION

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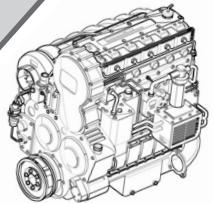
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ADDILEX G-740

Universal Engine Oil Additive



Product introduction

ADDILEX G-740 universal internal combustion engine oil additive package is the excellent additive package which can blend the top-grade oils. This product is blended by many efficient mono additives, which has passed the bench test, and it is suitable for the base oils for class I, II and III.

Applications

ADDILEX G-740 can meet the requirements of SM and SN grade oils.

Treat rates

| Performance Levels | Treat rate % |
|--------------------|--------------|
| SN | 7.90 |
| SM | 7.40 |

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|---|---------------|-------------|
| Density (20 °C), kg/m ³ | 970-1010 | ASTM D 4052 |
| Kinematic Viscosity @100 °C, mm ² /s | 85 | ASTM D 445 |
| Flash Point, °C | Min 180 | ASTM D 92 |
| TBN, mg KOH/g | 75-100 | ASTM D 2896 |
| Calcium, % | 2.8-3.5 | ASTM D 4951 |
| Zinc, % | 0.08-1.1 | ASTM D 4951 |
| Phosphorus, % | 0.72-1.05 | ASTM D 4951 |
| Molybdenum, ppm | 800-1500 | ASTM D 4951 |
| Boron, ppm | 800-1100 | ASTM D 4951 |
| Nitrogen, % | 0.8-1.1 | ASTM D 5291 |

Packing

■ Bulk ■ IBC ■ Drum

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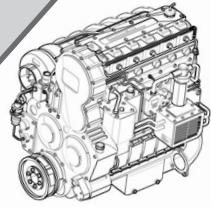
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ADDILEX G-750

SN, SM, SL, SJ, SF, ... SC Engine
oil Additive



Product introduction

ADDILEX G-750 is an all-purpose engine oil additive package with the main components of high based synthetic salt sulfonate and ash-less dispersant.

Applications

ADDILEX G-750 is primarily used in blending various lubricating oils, such as SN, SM, SL, SJ, SF, ... SC etc.

Treat rates

| Performance level | Multi/Mono | Treat rate % |
|-------------------|------------|--------------|
| SN | Multi | 8 |
| SM | Multi | 7.2 |
| SL | Multi | 6.5 |
| SJ | Multi | 6 |
| SG | Multi/Mono | 4.5 |
| SF | Multi/Mono | 3.3 |
| SE | Multi/Mono | 2.6 |
| SC | Multi/Mono | 2 |

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|---|---------------|-------------|
| Density (20 °C), kg/m ³ | 970-1020 | ASTM D 4052 |
| Kinematic Viscosity @100 °C, mm ² /s | 65 | ASTM D 445 |
| Flash Point, °C | Min 170 | ASTM D 92 |
| TBN, mg KOH/g | 73-90 | ASTM D 2896 |
| Calcium, % | 3.8-4.4 | ASTM D 4951 |
| Zinc, % | 1.5-2.2 | ASTM D 4951 |
| Phosphorus, % | 1.7-2.1 | ASTM D 4951 |
| Molybdenum, ppm | 450-680 | ASTM D 4951 |
| Nitrogen, % | 0.85 - 1.05 | ASTM D 5291 |

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

- **storage:** the maximum handling and unloading temperature is 60°C; it is recommended that for long term storage the temperature should not exceed 50°C.

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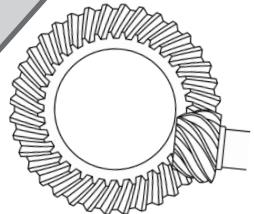
15 Allstate Parkway, Unit 624,
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UAE office

No 106, Sabkha Tower, Deira, Dubai,
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ADDILEX G-388

Gear oil Additive



Product introduction

ADDILEX G-388 has perfect anti-wear, anti-rust, anti-oxidant ability. It can be used for paraffine base crude oil, the intermediate base oil, naphthenic oil and hydrogenation base oil, etc.

Treat rates

| Performance level | Treat rate % |
|---------------------------------|--------------|
| GL-5 | 3.9 |
| GL-4 | 1.9 |
| Heavy load industrial Gear oil | 1.2 |
| Medium load industrial Gear oil | 1 |

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|--|---------------|-------------|
| Density (20 °C), kg/m ³ | report | ASTM D 4052 |
| Kinematic Viscosity @100°C, mm ² /s | report | ASTM D 445 |
| Flash Point, °C | ≥100 | ASTM D 92 |
| Phosphorus, % | ≥1.2 | ASTM D 4951 |
| Nitrogen, % | ≥0.18 | ASTM D 5291 |
| Sulfur, % | ≥ 28 | ASTM D 4951 |

Packing

- Bulk
- IBC
- Drum

HANDLING INFORMATION

- **storage:** Keep the temperature not higher than 60°C. For long-term storage the suggested temperature is lower than 50°C. The dry, clean and ventilating warehouse is recommended.

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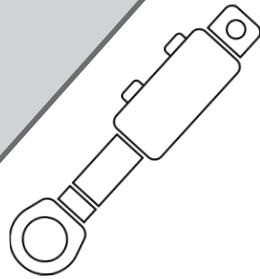
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ADDILEX H-515

Anti-wear Hydraulic Oil Additive Package



Product introduction

ADDILEX H-515 is blended with a variety of excellent additives such as EP anti-wear additives, antioxidant, corrosion inhibitors, etc.

Applications

It can be used for blending high-pressure and anti-wear hydraulic oil of low zinc content. The products have the stable quality, excellent extreme pressure and anti-wear property, thermal oxidation stability, and the oil change period lengthened obviously.

- Denison HF-0 , HF-2 , HE-2
- ISO 11158
- DIN 51524 Part II

Treat rates

The treat rates H-515 Anti-wear hydraulic oil additive package generally recommended to blend lubricants are 0.5-1.0%.

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|--|-------------------------------|-------------------|
| Appearance | Palm brown transparent liquid | Visual inspection |
| Density (15°C), kg/m ³ | 1010 | ASTM D 4052 |
| Kinematic Viscosity @ 40°C, mm ² /sec | 79.6 | ASTM D 445 |
| Flash Point | 192 | ASTM D 92 |
| Zinc, % | 5.5-7.3 | ASTM D 4951 |
| Phosphorus, % | 4.3-6.3 | ASTM D 4951 |
| Calcium, % | 0.45 min | ASTM D 4951 |

Packing

- Bulk
- IBC
- Drum

HANDLING INFORMATION

- Keep the temperature not higher than 75°C. For long-term storage, the suggested temperature is lower than 45°C.

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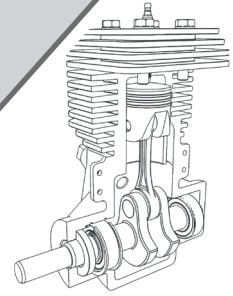
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ADDILEX T-961

Two-stroke Motor Oil



Product introduction

ADDILEX T-961 is a fine-tuned combination of detergent and dispersing agent at the best ratio. It has perfect detergency, lubricity with low-ash and excellent smoke-control. It has good corrosion resistance and early ignition prevention performance and meanwhile reduces exhaust system blockage.

Applications

This product is for high quality air-cooled two-stroke gasoline engine oil in line with the Japanese JASO M345 FB, FC performance index.

Treat rates

| LEVEL | Treat rates % | USE |
|-------|---------------|--|
| FB | 1.7% | Around 50ml displacement air-cooled two stroke machine |
| FC | 1.9% | Multiple displacement air-cooled two-stroke machines |
| TC | 2.2 % | ----- |

Technical indexes

| ITEM | TYPICAL VALUE | TEST METHOD |
|--|---------------|-------------|
| Flash point °C | 185 | ASTM D 92 |
| Kinematic viscosity@100°C mm ² /s | report | ASTM D 445 |
| Calcium % | 2-2.5 | ASTM D 4951 |
| Nitrogen % | 0.5-0.6 | ASTM D 4951 |
| TBN mg KOH/g | 60-70 | ASTM D 2896 |

Packing

- Bulk ■ IBC ■ Drum

HANDLING INFORMATION

- **storage:** the maximum handling and unloading temperature is 60°C; it is recommended that for long term storage the temperature should not exceed 50°C.
- **transport information:** the product is classified as not dangerous as far as

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