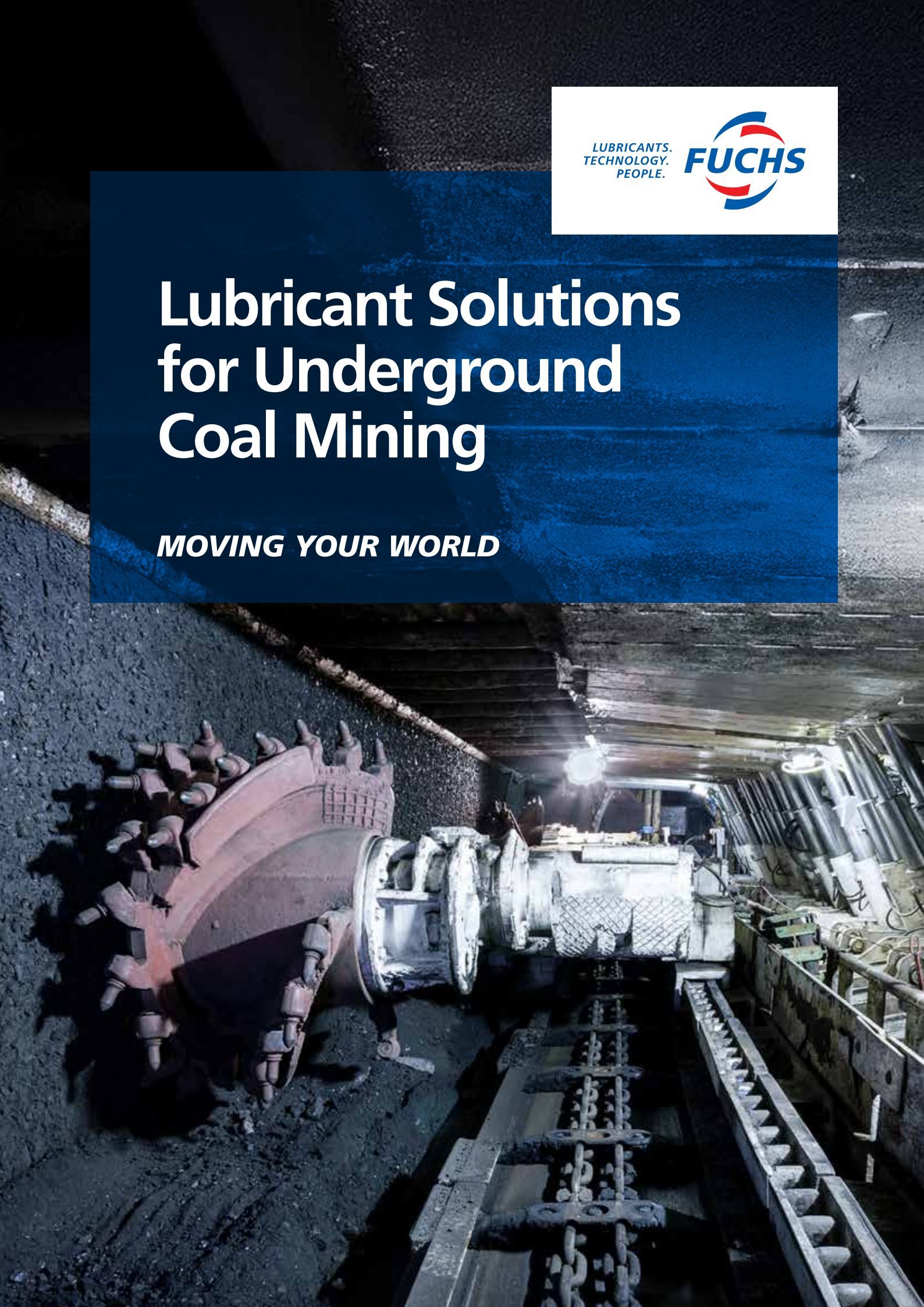


LUBRICANTS.
TECHNOLOGY.
PEOPLE.



Lubricant Solutions for Underground Coal Mining

MOVING YOUR WORLD



About FUCHS

FUCHS is a global brand with a German heritage that has developed, produced and sold lubricants and related specialties for more than 90 years. Comprising 71 operating companies (as of December 31, 2024) and more than 6,500 employees worldwide, the FUCHS Group is a leading independent supplier of lubricants.

The FUCHS product program comprises more than 11,000 products covering 25+ different industries including:

- **Automotive Lubricants**
- **Mining Lubricants**
- **Industrial Lubricants**
- **Lubricating Greases**
- **Metal Processing Lubricants**
- **Food Processing Lubricants**
- **Special Application Lubricants; and**
- **Services**

Along with its Sunshine (VIC) facility, FUCHS Lubricants (Australasia) Pty. Ltd. produces a selection of its products within its 25,000 square metre purpose built Beresfield (Newcastle, NSW) plant.

Keeping in line with its core values, both FUCHS facilities manufacture products using high-quality materials and cutting-edge technology whilst also adhering to industry leading environmental and manufacturing policies and requirements.

Working close with its customers, FUCHS develops holistic, innovative and custom-made solutions for a variety of applications.

And while that means the company is perfectly positioned to respond to the immediate needs of its customers - particularly in emergency situations - it also proudly means jobs for Australians.

As a lubricant manufacturer, FUCHS stands for performance, sustainability, safety, reliability and efficiency.

FUCHS LUBRICANTS. MOVING YOUR WORLD.

Wayne Hoiles

Regional Vice President
Australasia, India, Southeast Asia, Japan & South Korea

MOVING YOUR WORLD

by offering a comprehensive list of lubricants, which meet or exceed all major manufacturers' performance requirements. That means, no matter what your workforce of machinery consists of, FUCHS has a specialist lubricant to protect and maintain your equipment investments.



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Australasian Sites

Plants, Offices & Laboratories

- Manufacturing Plant, Lab, Head Office
- Manufacturing Plant, Lab, Office
- Warehouse/Office
- Office
- Warehouse



German Technology, Australian Commitment.

95%

of products sold in Australia and New Zealand are manufactured in Australia

1700

lubricants and related specialties

280

employees

2

world class production plants and laboratories being the only Australian manufacturer to produce lubricants, coolants, greases and additives. Customer Service teams based across Australia, from the East Coast to Perth



Engine Oils

Hard-working mining engines demand the very best in heavy-duty engine oil technology. Operating continuously under extreme loads places exceptional stress on lubricants, making **unconditional reliability** and component protection critical to maximising engine life. FUCHS is a global pacesetter in engine oil development, delivering continuous innovation and performance you can depend on without compromise.

TITAN high-performance engine oils are engineered to provide **unconditional reliability in the harshest mining environments**, while helping reduce operating costs through improved fuel efficiency, lower oil consumption and extended drain intervals.

FUCHS. Unconditional reliability, driven by innovation.





Safer, Smarter Packaging for Underground Mining

In the demanding environment of underground mining, the right packaging can make a significant difference to safety, efficiency, and sustainability. FUCHS 20L and 10L colour-coded steel drums are engineered to meet these challenges head-on, reducing fire risk, preventing cross-contamination, and cutting plastic waste. With compact 10L options ideal for confined spaces and 100% recyclable steel construction, these drums provide a robust, responsible solution for delivering lubricants and fluids safely where they are needed most underground.



RISK MITIGATION

Colour coding significantly reduces the risk of cross-contamination between products. Clear visual identification supports correct product selection at the point of use, helping maintenance and operations teams avoid costly errors that can lead to equipment damage, performance loss, or unplanned downtime. This is particularly important in complex underground environments where multiple lubricants and fluids are used in close proximity.

ELIMINATION OF STATIC

Fire risk mitigation is another critical consideration underground. Steel

drums do not generate the same level of static as plastic containers, helping to reduce the likelihood of ignition in potentially hazardous atmospheres.

By choosing steel over plastic, operations take an additional step towards a safer working environment, aligning with stringent mine safety standards and regulations.

100% RECYCLABLE

From an environmental perspective, steel drums offer a more sustainable packaging solution. Unlike many plastic formats, steel drums are 100% recyclable, supporting site waste reduction targets and corporate sustainability goals. Recovered

steel can be reprocessed repeatedly without loss of quality, helping to minimise landfill and resource consumption.

COMPACT SIZE FOR CONFINED SPACES

FUCHS 10L steel drums deliver a compact, easy-to-handle pack size that is ideal for confined underground spaces. The smaller volume improves manual handling, storage efficiency, and point-of-use convenience in narrow drives, headings, and workshop areas.

PRODUCT FEATURE

TITAN CARGO

SAE 15W-40

TITAN CARGO SAE 15W-40 is a diesel engine oil designed for a large range of underground and surface mining machinery which meet the latest API category CK-4.

The combination of state-of-the-art additive technology with a new base oil matrix provides the highest levels of performance regarding oxidation stability, resistance to oil aeration, wear protection as well as shear stability in highly stressed engines.

TITAN CARGO SAE 15W-40 is particularly advantageous in Tier 4 engines and machines fitted with exhaust gas treatment systems such as Diesel Particulate Filters (DPF), Diesel Oxidation Catalyst (DOC), Exhaust Gas Recirculation (EGR) and Selective Catalytic Reduction catalyst (SCR) and/or any combination of the given technologies.

SPECIFICATIONS

- ACEA E9
- API CK-4 / CJ-4 / SN
- CAT ECF-3
- JASO DH-2

APPROVALS

- CUMMINS CES 20086
- DETROIT DIESEL 93K222
- DEUTZ DQC III-10 LA
- FORD M2C171-F1
- MACK EO-S 4.5
- MAN M 3775
- MB-APPROVAL 228.31
- MTU DDC TYPE 2.1
- RENAULT RLD-3
- VOLVO VDS-4.5
- ALLISON TES-439

RECOMMENDATIONS

- MAN M 3575
- RENAULT RLD-4

Performance Features

- **Excellent oxidation stability**
- **Outstanding shear stability**
- **Protection of exhaust gas treatment systems due to very low sulphated ash content**
- **Excellent wear protection under high load conditions**
- **Protection against soot-related viscosity increase**



ENGINE OILS

TITAN CARGO SAE 15W-40

TITAN CARGO SAE 15W-40 is an ultra high performance engine oil featuring a CK-4 specification which not only meets today's stringent emission requirements but also the engine performance of modern Original Equipment Manufacturers (OEMs).

The combination of state-of-the-art additive technology with a new base oil matrix with very high oxidation stability provides the highest levels of performance regarding engine durability in highly stressed commercial vehicle engines.

TITAN CARGO SAE 15W-40 has not only been developed to today's emission requirements, but it's particularly advantageous in vehicles fitted with exhaust gas treatment systems such as Diesel Particulate Filters (DPF), Diesel Oxidation Catalyst (DOC), high rate of Exhaust Gas Recirculation (EGR), two-stage turbo charging and SCR-Catalyst (Selective Catalytic Reduction) and/or any combination of the given technologies.

Specifications

- ACEA E9 / E11
- API CK-4/CJ-4/SN
- CAT ECF-3
- JASO DH-2

Approvals

- MACK EOS-4.5
- ALLISON TES 439
- API CK-4
- DETROIT DIESEL 93K222
- DEUTZ DQC III-18 LA
- DTFR 15CC100
- MAN M 3775
- MB 228.31
- MTU TYPE 2.1
- RENAULT RLD-3
- VOLVO VDS-4.5

Recommendations

- MAN M 3575
- RENAULT RLD-4

Pack Sizes	5L	10L	20L	205L	1000L
Material No.	602290977	602290984	602291004	602291035	602291028
Part No.	4890005	4890010	4890020	4890205	48901000

TITAN CARGO UHPD 15W-40

TITAN CARGO UHPD 15W-40 is a premium performance, fuel-economy engine oil for a variety of commercial vehicle diesel engines which meet the latest API category, CK-4. Specially developed for vehicles with extended service intervals, exhaust after treatment and turbocharger.

Specifications

- ACEA E9
- API CK-4/CJ-4/ SN
- CAT ECF-3

Approvals

- CUMMINS CES 20086
- DETROIT DIESEL 93K222
- DEUTZ DQC III-18 LA
- MACK EOS-4.5
- MAN M 3775
- MB-APPROVAL 228.31
- MTU DDC TYPE 2.1
- RENAULT RLD-3
- VOLVO VDS-4.5

Recommendations

- JASO DH-2
- MAN M 3575
- RENAULT RLD-4

Pack Sizes	5L	10L	20L	205L	1000L
Material No.	602293039	602293046	602293053	602293077	602293060
Part No.	5101005	5101010	5101020	5101205	51011000

Gear Oils

The mining industry presents special demands and implications for driveline and enclosed gear applications. High load with rapid intermittent shock loading, always running, often reversing, these are highly stressed and critical components. Virtually every design type for the transmission of power is used in the diverse fleet of equipment used in surface and underground mining.

There is a FUCHS grade for nearly every type of gearbox or transmission application in the surface and underground mining industry e.g., heavy-duty manual and powershift transmissions; hoist, drag, propel and swing gearcases; final drives and axles.

These FUCHS oils were developed especially for the most advanced gearboxes and transmission designs. These high-performance gear and transmission oils meet the highest standards and specifications and ensure reliable, continuous operation ensuring low wear and low frictional loss. With their outstanding performance they can be used for almost any gearbox, particularly under extreme conditions.

The benefits are: outstanding high and low temperature properties and easy gear changing, the lowest possible degree of wear and tear and therefore the longest service life, extremely high pressure resistance and offering great reliability plus optimal corrosion protection.

AUTOMOTIVE GEAR OILS

TITAN SUPERGEAR SAE 80W-90

TITAN SUPERGEAR SAE 80W-90 is a super high-performance gear oil for extended oil change intervals.

A mineral universal gear oil for use in manual transmissions and axle gearboxes in both passenger cars and commercial vehicles.

Specifications <ul style="list-style-type: none"> API GL-5/GL-5 		Approvals <ul style="list-style-type: none"> MAN 342 TYPE M2 ZF TE-ML 05A ZF TE-ML 12E ZF TE-ML 17B ZF TE-ML 19B ZF TE-ML 21A (ZF000647) 		Recommendations <ul style="list-style-type: none"> MIL-L-2105 D NH 520 A STEYR B-101 VOLVO 97310 		
Pack Sizes	1L	4L	20L	60L	205L	1000L
Material No.	602282569	602282576	602282583	602282606	600634483	602282613
Part No.	2135001	2135004	2135020	2135060	2135205	21351000

TITAN SUPERGEAR LS SAE 80W-90

TITAN SUPERGEAR LS SAE 80W-90 is a high performance LS (Limited Slip) hypoid gear oil for axles in commercial vehicles and passenger cars with or without limited slip differentials. LS (Limited Slip) hypoid gear oil for highly stressed normal and limited slip differentials in cars, vans, trucks, buses, tractors, construction and industrial machinery. All-season, high performance, LS hypoid gear oil. Miscible with all mineral and synthetic gear oils. No flushing is therefore required.

Specifications <ul style="list-style-type: none"> API GL-5/GL-5 LS API MT-1 SAE J2360 		Approvals <ul style="list-style-type: none"> N/A 		Recommendations <ul style="list-style-type: none"> FORD WSP-M2C197A MACK GO-J MERITOR 0-76D MIL-PRF-2105 E ZF TE ML-07 / ML-08 		
Pack Sizes	1L	4L	20L	60L	205L	1000L
Material No.	602282699	602282705	602282712	602282736	602282750	602282743
Part No.	2137001	2137004	2137020	2137060	2137205	21371000

TITAN SUPERGEAR GL-5 SAE 85W-140

TITAN SUPERGEAR GL-5 SAE 85W-140 is an ultra high performance SAE 85W-140 API GL-5 gear oil. It is a mineral universal gear oil for use in manual transmissions and axle gearboxes in both passenger cars and commercial vehicles.

Specifications <ul style="list-style-type: none"> API GL-5 		Approvals <ul style="list-style-type: none"> N/A 		Recommendations <ul style="list-style-type: none"> N/A 		
Pack Sizes	20L		205L		1000L	
Material No.	602292520		602292544		602292537	
Part No.	5072021		5072205		50721000	

TITAN SUPERGEAR SAE 85W-140

TITAN SUPERGEAR SAE 85W-140 is an ultra high performance mineral universal gear oil for use in manual transmissions and axle gearboxes in both passenger cars and commercial vehicles.

Specifications <ul style="list-style-type: none"> API GL-4 / GL-5 		Approvals <ul style="list-style-type: none"> EvoBus 26.000-025 ZF TE-ML 05A, 12E, 16D, 21A (ZF000650) 		Recommendations <ul style="list-style-type: none"> MIL-L-2105 D VOLVO 97310 		
Pack Sizes	4L	20L	60L	205L	1000L	
Material No.	602282637	602282651	602282668	600634513	602282675	
Part No.	2136004	2136021	2136060	2136205	21371000	

INDUSTRIAL GEAR OILS

RENOLIN CLP SERIES

The RENOLIN CLP Series of gear oils contain carefully selected base oil and matched additives to protect machinery from undue wear in especially critical boundary friction conditions. RENOLIN CLP products fulfill and in many cases exceed all CLP lubricating oil requirements as defined in DIN 51 517-3 and ISO 6743-6.

Specifications <ul style="list-style-type: none"> DIN 51 517-3 (2011): CLP ISO 6743-6: CKC/CKD ISO 12925-1: CKC/CKD AIST 224 AGMA 9005/E02:EP David Brown S1 53.101 		Approvals <ul style="list-style-type: none"> Ask your FUCHS Sales Representative 	Recommendations <ul style="list-style-type: none"> Ask your FUCHS Sales Representative
RENOLIN CLP 68	20L	205L	1000L
Material No.	602294548	602294548	602294548
Part No.	1926020	1926205	19261000
RENOLIN CLP 100	20L	205L	
Material No.	602281661	600634308	
Part No.	1918020	1918205	
RENOLIN CLP 150	20L	205L	1000L
Material No.	602281678	600634315	602281692
Part No.	1920020	1920205	19201000
RENOLIN CLP 220	20L	205L	1000L
Material No.	602281722	600634322	602281746
Part No.	1921020	1921205	19211000
RENOLIN CLP 320	20L	205L	1000L
Material No.	602281760	600634339	602281784
Part No.	1924020	1924205	19241000
RENOLIN CLP 460	20L	205L	1000L
Material No.	602281807	600634346	601353710
Part No.	1925020	1925205	19251000
RENOLIN CLP 680	20L	205L	1000L
Material No.	602241450	600634353	602283306
Part No.	2456020	2456205	24561000

RENOLIN CLP PLUS SERIES

RENOLIN CLP PLUS is a special industrial gear oil based on high-quality base oils and synergistically acting additives to improve ageing resistance, load-carrying capacity and wear protection.

Specifications <ul style="list-style-type: none"> DIN 51 517-3: CLP ISO 6743-6 & ISO 12925-1:CKC/CKD AGMA 9005/E02:EP 		Approvals <ul style="list-style-type: none"> Ask your FUCHS Sales Representative 	Recommendations <ul style="list-style-type: none"> Ask your FUCHS Sales Representative
RENOLIN CLP 220 PLUS	1000L		
Material No.	602288844		
Part No.	46471000		
RENOLIN CLP 320 PLUS	20L		
Material No.	602289483		
Part No.	4699020		
RENOLIN CLP 460 PLUS	20L	205L	
Material No.	602270238	602289544	
Part No.	4703020	4703205	

RENOLIN UNISYN CLP SERIES

RENOLIN UNISYN CLP Series oils lower friction and reduce wear. Furthermore, these oils increase the efficiency of machine components. Polyalphaolefins, and thus RENOLIN UNISYN CLP Series oils, are miscible and compatible with mineral oils at all ratios and can be disposed of as such. The compatibility of polyalphaolefins with common machinery materials, seals and paint finishes is comparable with that of mineral oils.

Specifications

- DIN 51 517-3: CLP
- ISO 6743-6 & ISO 12925-1: CKC/CKD/CKE
- AGMA 9005/E02:EP
- AIST 224
- David Brown S1 53.101
- FAG Requirements: FAG-FE8-Test: stage 1-4 pass
- SKF requirements: pass (100°C-test)

Approvals

- Ask your FUCHS Sales Representative

Recommendations

- Ask your FUCHS Sales Representative

RENOLIN UNISYN CLP 150	20L	205L	
Material No.	600345174	602297631	
Part No.	44186020	4418205	
RENOLIN UNISYN CLP 220	20L	205L	1000L
Material No.	602281586	602281609	602281593
Part No.	1916020	1916205	19161000
RENOLIN UNISYN CLP 320	20L	205L	1000L
Material No.	602281623	602281654	602281647
Part No.	1917020	1917205	19171000
RENOLIN UNISYN CLP 460	20L	205L	1000L
Material No.	602283962	602283986	602283979
Part No.	1917021	1917205	19171000
RENOLIN UNISYN CLP 680	20L	205L	1000L
Material No.	602284921	602284945	602284938
Part No.	3997021	3997205	39971000

PRODUCT FEATURE

AGRIFARM UTTO MP

AGRIFARM UTTO MP is a Super high-performance oil (UTTO/MFO) for use in transmission and hydraulic systems with integrated wet brakes, clutches and differentials. AGRIFARM UTTO MP is suitable for agricultural and construction machinery and is based on a careful selection of base oils and additive technology which guarantees excellent wear protection, good viscosity and temperature behaviour and best friction properties.

AGRIFARM UTTO MP's special additive components guarantee outstanding deceleration performance combined with a high capability of noise suppression over the full oil drain. Also gearboxes or combined gearbox-hydraulic-systems of agricultural and construction machinery with fill instructions HD-engine oil SAE 10W-30 or gear oils SAE 75W-80 acc. to API GL-4 can be filled using AGRIFARM UTTO MP alternatively. All machines with accessory equipment drives should be switched to AGRIFARM UTTO MP consistently to utilise the maximum rationalisation benefit. AGRIFARM UTTO MP is miscible and compatible with conventional branded gear oils. However, mixing with other gear oils should be avoided in order to fully utilise the product's benefits. A complete oil change is recommended when converting to AGRIFARM UTTO MP.

SPECIFICATIONS

- API GL-4

APPROVALS

- ZF TE-ML 03E, 06L, 05F, 17E, 21F (ZF002183)
- DANA-OHTM-UTTO 22G-0012
- VOLVO WB 101

Performance Features

- **Excellent protection against friction and wear**
- **Excellent anti-corrosion protection**
- **Reduces brake chattering and squeaking**
- **Excellent seal compatibility**
- **Optimal high-temperature viscosity control**



GEAR OILS - UTTO

TITAN UTTO TO-4 SERIES

TITAN UTTO TO-4 (SAE 10W, 30, 50, 60) are super high performance multi-functional oils which have been specially designed to meet the rigorous requirements of the CATERPILLAR TO-4 specification.

Specifications <ul style="list-style-type: none"> API GL-4 CATERPILLAR TO-4 		Approvals <ul style="list-style-type: none"> ZF TE-ML 03C (For SAE 10W, SAE 30) ZF TE-ML 07F (SAE 30 only) 		Recommendations <ul style="list-style-type: none"> ALLISON TES-439 (SAE 30 only) KOMATSU KES 07.868.1 	
TITAN UTTO TO-4 SAE 10W		20L	205L	1000L	
Material No.		602282781	600904678	601418723	
Part No.		2145020	2145205	21451000	
TITAN UTTO TO-4 SAE 30		20L	205L	1000L	
Material No.		602282828	600904333	602282842	
Part No.		2157020	2157205	21571000	
TITAN UTTO TO-4 SAE 50		20L	205L	1000L	
Material No.		602282866	600905408	602299093	
Part No.		2158020	2158205	21581000	
TITAN UTTO TO-4 SAE 60		20L	205L	1000L	
Material No.		602283504	602283511	602299109	
Part No.		2572020	2572205	25721000	

AGRIFARM UTTO MP

ULTRA HIGH PERFORMANCE

AGRIFARM UTTO MP is a super high performance multi-functional oil (UTTO/MFO) for use in transmission and hydraulic systems with integrated wet brakes, clutches and differentials for agricultural and construction machinery.

AGRIFARM UTTO MP's special additive components guarantee outstanding deceleration performance combined with a high capability of noise suppression over the full oil drain.

Specifications <ul style="list-style-type: none"> API GL-4 		Approvals <ul style="list-style-type: none"> DANA-OHTM-UTTO VALTRA G2-08 VOLVO WB 101 ZF TE-ML 03E, 06K, 05F, 17E, 21F (ZF002183) 		Recommendations <ul style="list-style-type: none"> AGCO Powerfluid 821 XL AGCO Q-186 (Whitefarm) ALLISON C-4 CASE MS 1230, 1210, 1209, 1207, 1206 CLAAS / LANDINI / SAME-Transmission CNH MAT 3505, 3506, 3509, 3525, 3526, 3540 DIN 51524 : HLD (-D) FNHA-2-C-200.00 / -201.00 FORD M2C48-C3, ESN M2C86-B/C, M2C134-D JOHN DEERE JDM J20C KUBOTA UDT FLUID MASSEY FERGUSON CMS M 1145, 1143, 1141, 1135 SAE J300 10W-30 SAE J306: 75W-80 SDFG OT 1891 A VALTRA G2-08, G2-B10 	
--	--	--	--	--	--

Pack Sizes	5L	20L	205L	1000L
Material No.	602287199	602287205	602287236	602287229
Part No.	4399005	4399020	4399205	43991000

TRANSMISSION OILS

TITAN ATF 6400

BluEV
TECHNOLOGY

TITAN ATF 6400 is a premium performance ATF with reduced viscosity specifically formulated for automatic transmissions of Japanese and American manufacturers; licensed according to DEXRON VI. With BluEV Technology, additionally applicable in hybrid vehicles of different manufacturers.

- DEXRON VI approval
- Meets JASO M315 1A-LV for use in Japanese automatic transmissions
- Excellent friction stability for constantly smooth gear shifting throughout service interval
- Supported by real-world testing in a range of passenger vehicles after nearly 1,000,000km
- Excellent shear stability ensures long-term performance
- Thanks to BluEV Technology suitable for selected hybrid vehicles.

Specifications

- FORD MERCON LV
- JASO M315 TYPE 1A-LV

Approvals

- DEXRON VI (T62BEZ075)
- ZF TE-ML 09

Recommendations

- AISIN WARNER/AW-1
- BMW 81 22 9 400 272
- BMW 81 22 9 400 275
- BMW 81 22 9 407 738
- BMW 83 22 0 397 114
- BMW 83 22 0 403 248
- BMW 83 22 0 403 249
- BMW 83 22 0 432 807
- BMW 83 22 2 163 514
- BMW 83 22 2 167 718
- BMW 83 22 2 167 720
- BMW 83 22 2 355 599
- BMW 83 22 2 355 601
- BMW 83 22 9 407 858
- BMW 83 22 9 407 859
- DEXRON HP
- FIAT 9.55550-AV2
- FIAT 9.55550-AV6
- GM 9256039/88863400
- HONDA DW-1
- HYUNDAI NWS 9638
- HYUNDAI SP-IV
- HYUNDAI SP-IV M
- HYUNDAI SP-IV RR
- JWS 3324
- KIA SP-IV
- MB 236.41
- MITSUBISHI ATF-J3
- MITSUBISHI ATF-PA
- MITSUBISHI MA1
- NISSAN MATIC S
- TOYOTA TYPE WS
- VW G 055 540 A2

Pack Sizes	4L	20L	60L	205L
Material No.	602291431	602291448	602291455	602294890
Part No.	4932004	4932020	4932060	4932205

TITAN ATF 5500

Premium Performance ATF for automatic transmission in motor vehicles. Outstanding base oil quality for optimal cold temperature properties and high ageing stability. Durable friction properties for excellent shift performance.

TITAN ATF 5500 has been designed based on selected high-quality base oils and a specially developed additive technology. It is highly thermally durable, offers extreme oxidation stability and offers also a reliable performance at very low temperatures. TITAN ATF 5500 is applicable in many applications in passenger cars as well as light and heavy duty vehicles.

Specifications

- N/A

Approvals

- EvoBus 27.000-017
- MAN 339 TYPE V1
- MAN 339 TYPE V2
- MAN 339 TYPE Z3
- MAN 339 TYPE Z12
- MB-APPROVAL 236.9
- VOITH 150.014524.xx
- VOLVO 97341
- ZF TE-ML 04D, 14C, 16M, 16S, 20C, 25C (ZF001797)

Recommendations

- DEXRON III (H)
- ALLISON TES 295
- ALLISON TES 389
- IVECO 18-1807 CLASSE AG3/I
- VOITH H55.6336.xx

Pack Sizes	4L	20L	205L	1000L
Material No.	602290540	602298447	602298454	602290557
Part No.	4845004	4845020	4845205	48451000

TRANSMISSION OILS

TITAN ATF 4400

Ultra High Performance ATF specifically formulated for Japanese passenger cars and light commercial vehicles. The high torque capacity exceeds the performance of many original fluids.

TITAN ATF 4400 has been developed especially to suit the special demands of modern Japanese step-type automatic transmissions with hydraulic converters used in many passenger cars and light duty vehicles.

TITAN ATF 4400 (P/N: 4935) is a new but updated version (to P/N: 3970). And as TITAN ATF 4400 has been totally updated – and replaces the old TITAN ATF 4400 (part number: 3970) – special effort should be made to ensure this product is used within the correct vehicles.

Specifications <ul style="list-style-type: none"> JASO M315 TYPE 1A 		Approvals <ul style="list-style-type: none"> N/A 		Recommendations <ul style="list-style-type: none"> BMW MINI 83 22 0 402 413/83 22 7 542 290 CHRYSLER MS7176E/9602 (ATF +3/+4) DAIHATSU ALUMIX ATF MULTI DEXRON III FIAT 9.55550-AV1/AV4 FORD M2C924-A/M2C922-A1 FORD MERCON GM 9986195 HONDA ATF Z-I HYUNDAI SP III ISUZU BESCO ATF-II/ATF-III 	
Pack Sizes	1L	4L	20L	60L	205L
Material No.	602298430	602291509	602291516	602291523	600700911
Part No.	4935001	4935004	4935020	4935060	4935205

TITAN ATF D3

A multifunctional ATF for Passenger Cars and Commercial Vehicles requiring a Dexron® III specification.

TITAN ATF D3 is a Multifunctional Automatic Transmission Fluid, providing longer life and smoother gear shifts. Specially formulated to conform to GM and Ford specifications. Supersedes Dexron®. Not suitable where Dexron® VI is called for.

Specifications <ul style="list-style-type: none">N/A		Approvals <ul style="list-style-type: none">N/A		Recommendations <ul style="list-style-type: none">ALLISON C4CATERPILLAR TO-2FORD MERCON®DEXRON® III		
Pack Sizes	1L	4L	20L	60L	205L	1000L
Material No.	602282385	602282392	602282408	602282422	602282446	602282439
Part No.	2121001	2121004	2121020	2121060	2121205	21211000



Supporting the Mining Industry

LUBRICANTS. TECHNOLOGY. PEOPLE.

FUCHS has almost 100 years' experience providing the highest quality lubricant solutions to the mining industry. We claim technological leadership in strategically important fields of application. Our dedicated team partners with our customers to provide holistic solutions, which extract maximum value from the use of our products.

Value Add Program Features

Our industry specific Value Add program is tailored to our customer's needs. Customers are able to select from a range of services and activities that maximise the value generated by the use of our lubrication products by optimizing the lifecycle of the product, from supply chain, through storage and handling phases, to application and end of life disposal recycling. Our service package is designed to assist customers to optimise all facets of lubricant use on the mine site, from lubricant storage and handling, fixed and mobile plant, used oil analysis and training.

Telemetry + Vendor Management

FUCHS will manage your site bulk inventory. Tank telemetry gives us real time visibility of ullage and bulk tankers are scheduled from our regional depots. Your site inventory officers only need to process the delivery paperwork. Our team of Sales Managers also take packaged goods stock counts, to ensure optimized inventory levels and assist your inventory officers in raising orders for replenishment. Our exchange grease bins, and fluid containers are fitted with GPS tracking, so their whereabouts can be monitored and deliveries tracked in real time.

Lube Survey

FUCHS provides detailed lubricant surveys. We assess handling and storage practices and provide a comprehensive report of improvement opportunities. This service includes monitoring Solcenic mixing stations for correct operation and concentration, and fluid cleanliness.

Fixed Plant

FUCHS supports your critical path, fixed plant equipment with our expert technical services and specialised lubricants to ensure maximum protection, performance and longevity. Our mining specific fixed plant auditing system, including both site and oil analysis database audits, as well as world class industry know-how and solutions ensure optimised application of our lubrication products in your equipment, minimising equipment downtime and extending component life.

CENT Used Oil Analysis

Fully equipped condition monitoring and quality control laboratories at Beresfield and Sunshine provide analyses such as: fluid and grease condition analysis, standard schedule and specialised testing, product trial monitoring and capability analysis.

FUCHS Training Services

FUCHS Mining's dedicated Trainer and Assessor provides a broad range of training modules to your personnel, including warehousing, maintenance, planning and engineering. Sessions are available face to face or via online.

Hydraulic Fluids

Hydraulic Oils are a crucial contributor to the efficiency and productivity of surface and underground mining operations. These hydraulic systems are always running at high load and often operate at full capacity (low tank volume, high circulation rates, high pressure) and potentially in very hot or very cold environments. In other words, today's hydraulic oils are a more critical component than ever. Standard hydraulic oils cannot reliably meet the requirements placed upon them in all instances.

Therefore FUCHS offers a full range of hydraulic oils to meet the specific requirements of our customers operations. From premium performance mineral oils to special synthetics we have your hydraulic oil needs covered.

The demand for lower fuel consumption and the associated reduction of emissions, while maintaining the same level of performance, can now only be met by using special hydraulic oils. Fuel economy and energy saving are becoming more and more important. In the light of this, and in order to meet the special demands of a heavy machinery manufacturer, we have developed specialty hydraulic oil that significantly reduces fuel consumption while at the same time offering high efficiency and longer service life. Less maintenance and lower failure related downtime as well as a broader operating temperature range make a significantly reduction in operating costs.

You can benefit from our experience, too!

HYDRAULIC FLUIDS

RENOLIN B HVI PLUS RANGE

Premium, high viscosity index (HVI) hydraulic oil. Based on multigrade technology with superior additives that provide improved aging resistance, higher efficiency and excellent corrosion and wear protection.

Specifications

- Bosch Rexroth
- Cincinnati Milacron
- Denison HF0
- DIN 51 524-3, HVLP
- ISO 6743-4
- US Steel
- Vickers

RENOLIN B 32 HVI PLUS	5L	20L	205L	
Material No.	602281111	602281128	602281135	
Part No.	1695005	1695020	1695205	
RENOLIN B 46 HVI PLUS	5L	20L	205L	1000L
Material No.	602281142	602281159	602281173	602281166
Part No.	1696005	1696020	1696205	16961000
RENOLIN B 68 HVI PLUS	5L	20L	205L	1000L
Material No.	602281180	602281197	600627508	602281210
Part No.	1697005	1697020	1697205	16971000
RENOLIN B 100 HVI PLUS	20L	205L	1000L	
Material No.	602283337	602283368	602283351	
Part No.	2508020	2508205	25081000	
RENOLIN B 150 HVI PLUS	20L			
Material No.	602283856			
Part No.	3153021			

RENOLIN B PLUS RANGE

Premium, hydraulic oil for use in a wide range of hydraulic systems. Superior additives provide improved ageing resistance, corrosion protection and wear protection.

Specifications

- AFNOR E48-603
- Bosch Rexroth (46 only)
- Cincinnati Milacron
- P-68, P-69, P-70
- Denison HF-1, HF-2, HF-0
- DIN 51524-2: HLP

RENOLIN B 32 PLUS	5L	20L	205L	1000L
Material No.	602280718	602280725	601447853	602280749
Part No.	1666005	1666020	1666205	16661000
RENOLIN B 46 PLUS	5L	20L	205L	1000L
Material No.	602280763	602280770	601447860	602280794
Part No.	1667005	1667020	1667205	16671000
RENOLIN B 68 PLUS	5L	20L	205L	1000L
Material No.	602280817	602280824	601447891	602280848
Part No.	1668005	1668020	1668205	16681000
RENOLIN B 100 PLUS	20L	205L	1000L	
Material No.	602280664	601447907	602280688	
Part No.	1663020	1663020	16631000	

RENOLIN ZAF SERIES

The RENOLIN ZAF series is a premium zinc and ash free hydraulic oil. The use of a zinc-free hydraulic/light lubricating oil is a requirement in many applications, especially where there is risk where the hydraulic fluid/ lubrication oil could be cross contaminated with metalworking fluids. RENOLIN ZAF Series offer excellent water separation, and its Zinc and Ash free formulation provides excellent wear and corrosion protection, oxidation stability and good resistance to ageing, and seal compatibility.

Specifications

- DIN 51 524-2 : HLP

RENOLIN ZAF 5	20L		
Material No.	602281067		
Part No.	1687020		
RENOLIN ZAF 10	20L	205L	
Material No.	602280886	602280893	
Part No.	1670020	1670205	
RENOLIN ZAF 22	20L	205L	1000L
Material No.	602280961	602280992	602280985
Part No.	1675020	1675205	16751000
RENOLIN ZAF 32	20L	205L	
Material No.	602281029	602281036	
Part No.	1678020	1678205	
RENOLIN ZAF 46	20L	205L	
Material No.	602281043	602281050	
Part No.	1682020	1682205	
RENOLIN ZAF 68	20L	205L	1000L
Material No.	602281074	602281098	602281081
Part No.	1688020	1688205	16881000
RENOLIN ZAF 100	20L	205L	1000L
Material No.	602280909	602280923	602280916
Part No.	1671020	1671205	16711000

UNILUBE

UNILUBE 68 UNILUBE 68 D

Pack Sizes ■ 20L ■ 200L ■ 1000L
Pack Sizes ■ 20L ■ 200L ■ 205L ■ 1000L

UNILUBE hydraulic oils are an anti-wear hydraulic oils formulated with a blend of high-quality conventional base stocks. It is recommended for use in a wide variety of industrial, mobile and mining hydraulic system applications.

UNILUBE 68 is formulated to provide excellent wear protection for hydraulic systems by protecting it against rust, wear and corrosion. It has good demulsification properties to minimize the formation of emulsions.

Specifications

- DENISON HF-0
- Bosch Rexroth RDE 90235
- ISO 6743-4: HM
- DIN 51524-2: HLP
- Vickers vane pump
- Cincinnati Milacron P-68, P-69, P-70

PRODUCT FEATURE

RENOSAFE FIREPROTECT

RENOSAFE FireProtect products are fire resistant hydraulic fluids based on special synthetic esters. The selected organic ester base oils have highest purity and show high oxidation hydrolytic and thermal stability. The properties of the fluids are improved by the addition of special selected zinc and ash-free additive systems. These zinc and ash-free additive systems are based on new additive technology which guarantees excellent copper compatibility, yellow metal compatibility, excellent hydrolytic stability and highest oxidation stability. They contain very effective robust and stable wear protection additives together with extreme pressure components.

The RENOSAFE FireProtect products are non-toxic and physiologically harmless. The products of the RENOSAFE FireProtect series show in comparison to mineral based hydraulic fluids higher flammability temperature and higher self-ignition temperature. Special flammability tests according to ISO 12922 demonstrate that RENOSAFE FireProtect products reduce the risk of violent explosion or flammability when the fluids come in contact with open flames or hot metal surfaces (in comparison with mineral based products).

SPECIFICATIONS

- ISO 12922
- DIN 51502
- HES 46 ISO 15380

Performance Features

- **Excellent resistance to ageing and oxidation**
- **Non-toxic and free of heavy metals**
- **High shear stable viscosity index**
- **Rapid air release, low foaming behaviour**
- **Excellent wear protection properties, high scuffing load characteristics**



HYDRAULIC FLUIDS - FIRE RESISTANT

RENOSAFE FIREPROTECT 46

RENOSAFE FIREPROTECT products are fire resistant hydraulic fluids based on special synthetic esters. The selected organic ester base oils have highest purity and show high oxidation and thermal stability. The properties of the fluids are improved by the addition of special selected zinc and ash-free additive systems. These zinc and ash-free additive systems are based on new additive technology which guarantees excellent copper compatibility, yellow metal compatibility, excellent hydrolytic stability and highest oxidation stability. They contain very effective robust and stable wear protection additives together with extreme pressure components. The RENOSAFE FIREPROTECT products are non-toxic and physiologically harmless. The products of the RENOSAFE FIREPROTECT series show in comparison to mineral based hydraulic fluids higher flammability temperature and higher self-ignition temperature.

Specifications

- HEES 46 ISO 15380 hydraulic fluid based on synthetic ester
- RENOSAFE FIREPROTECT HFDU fluid according to DIN 51502, based on synthetic, organic esters.
- Fulfills HLP requirements (with the exception of the TOST properties)
- HFDU according to ISO 12922

PACK SIZES	20L	205L
Material No.	602290052	602297914
Part No.	4800021	4800205

FOSFOCENT 600

FOSFOCENT 600 is a fire resistant hydraulic fluid, type HFDR. For use in fluid couplings in underground coal mines. A phosphate ester lubricant classified by the International Organisation for Standardisation and included in the ECSC 7th Luxembourg Report as a HFDR fluid. Fosfoцент 600 passes the requirements of the spray and wick tests of British Coal Specification No 570/1981. The excellent lubricity and stability characteristics displayed by FOSFOCENT 600 when applied correctly will provide long life with minimum fluid maintenance.

Specifications

- N/A

PACK SIZES	20L	880L
Material No.	602280299	602280305
Part No.	1461020	14611000

Greases

The importance of choosing the right lubricating grease or multi-service open gear lubricant must never be underestimated. These lubricants are integral components of heavy machinery, particularly for surface and underground mining applications.

To ensure everything runs smoothly. Protect your investment with FUCHS.



SOLID CONTAINING GREASES

RENOLIT CXS GSM SERIES

High-performance calcium sulfonate complex thickened grease formulated with 100% virgin base oils, an optimized extreme pressure/anti-wear additive system, corrosion/oxidation additive package and fortified with a synergistic solids additive system for maximum protection in heavily loaded/shock loaded applications. This blend of solid additives provides for improved performance over straight 5% Molybdenum Disulfide (MoS₂) grease alone.

RENOLIT CXS GSM/H	450g	20kg	180kg	1440kg	Bulk
Material No.	602290427	602290366	602290403	602290397	
Part No.	4825450	4825020	4825180	48251440	
RENOLIT CXS GSM/S	450g	20kg	180kg	1260kg	1440kg
Material No.	602286680	602286628	602299321	602286642	602286659
Part No.	4310450	4310020	4310180	43101260	43101400
RENOLIT CXS GSM/D	20kg	180kg			
Material No.	602287472	602287489			
Part No.	4471020	4471180			

RENOLIT MCE 460 EP 2

RENOLIT MCE 460 EP 2 is an innovative grease designed for a wide variety of mining, construction and earthmoving applications. It offers a high level of wear and corrosion protection and utilizes unconventional black solids to provide a high level of wear protection at a competitive price.

RENOLIT MCE 460 EP 2 is designed for applications which require a product that offers a high level of protection in boundary lubrication conditions, such as pin and bush applications or slow speed and high load plain and anti-friction bearings such as the slew bearing and gear on most mobile off-highway equipment. Being a good general purpose product, it is also suitable for lubricating wire ropes and sheaves.

Pack Sizes	450g	20kg	180kg
Material No.	602295910	602292186	602292209
Part No.	5028450	5028020	5028180

RENOLIT LIM 460-2

RENOLIT LIM 460-2 is designed to meet and exceed the industry requirements in applications which require a product that offers a high level of protection under boundary lubrication conditions. It is particularly suitable for mobile off-highway equipment central lubrication systems which feed applications such as pin and bush, slew bearing and slew gears. Being a good general purpose product, it is also suitable for lubricating wire ropes and sheaves and plain and roller bearings operating under high loads at slow speeds.

Pack Sizes	450g	20kg	55kg	180kg	1260kg
Material No.	602294647	602294593	602294609	602294623	602301840
Part No.	5206450	5206020	5206055	5206180	52061260

RENOLIT LUBRENE LMG 960 EP 2

RENOLIT LUBRENE LMG 960 EP 2 is a high performance, semi-synthetic mining grease. RENOLIT LUBRENE LMG 960 EP 2 exhibits excellent anti-wear and load carrying capacity. It is recommended for the lubrication of slow speed anti-friction bearings, pin and bushes, universal joints, axles etc.

Pack Sizes	450g	20kg	180kg	1260kg
Material No.	602288073	602288028	602288042	602288035

PRODUCT FEATURE

INDUSTRY SOLUTIONS WITH **RENOLIT EP2 AU 2.3KG**

FUCHS has engineered a better answer: RENOLIT EP 2 in a custom 2.3 kg plastic pack, purpose-designed for underground mining and tunnelling equipment.

This robust plastic container is built to fit onboard grease systems using non-standard pack sizes, delivering reliable, clean grease supply where it matters most.

Key Benefits:

- **NO LEAKAGE** – reducing contamination and clean-up time
- **NO DETERIORATION IN SERVICE** – helping prevent downstream injector and line blockages
- **EXTENDED SHELF LIFE** – for confidence in storage and long-term performance



RENOLIT EP RANGE

The RENOLIT EP range are multi-purpose lithium soap based greases for general purpose lubrication and automotive chassis points.

RENOLIT EP 0 and 00 are multi-purpose extreme pressure semi fluid grease.

RENOLIT EP 1 is a multi-purpose extreme pressure grease and easy to pump.

RENOLIT EP 2 RED is a multi-purpose extreme pressure grease for automotive and industrial applications.

RENOLIT EP 0	20kg	175kg			
Material No.	602281968	602281975			
Part No.	1954020	1954175			
RENOLIT EP 00	20kg	175kg			
Material No.	602281982	602281999			
Part No.	1955020	1955175			
RENOLIT EP 1	20kg	180kg			
Material No.	602282002	602282019			
Part No.	1956020	1956180			
RENOLIT EP 2 AU	450g	2.5kg	20kg	55kg	180kg
Material No.	602282095	602282040	602282057	602282064	602282071
Part No.	1957450	19570025	1957020	1957055	1957180

MULTIPURPOSE GREASES

RENOLIT GT PLEX 2

RENOLIT GT-PLEX 2 is a high performance multi-purpose grease. It has been designed for high temperature applications and to stay in place and resist water wash out. RENOLIT GT-PLEX is orange in color for easy identification and will resist squeeze-out whilst also preventing wear and corrosion. Due to the design of this product, it provides an effective seal against contamination ingress such as dust, dirt and water which also assists in reducing grease consumption and prolonging the life of the components which are lubricated using this state of the art orange grease.

Pack Sizes	450g	20kg	180kg
Material No.	602292599	602292568	602292582
Part No.	5073450	5073020	5073180

RENOLIT XTB 2

Long life multipurpose grease that is specially designed for extreme bearing applications.

RENOLIT XTB 2 is suitable for a variety of automotive applications, including wheel bearing and general chassis lubrication. Blue coloured lithium complex grease which has been formulated to provide improved oxidation, wear protection and corrosion resistance compared to conventional greases.

Pack Sizes	450g	500g	2.5kg	20kg	55kg	180kg
Material No.	602285461	602285478	602285386	602285409	602285416	602285430
Part No.	4095450	4095500	40950025	4095020	4095055	4095180

LAGERMEISTER BF 1

LAGERMEISTER BF 1 is a long-life EP grease based on paraffinic mineral oil and can be used as an all-round grease for multi-purpose lubrication.

Pack Sizes	500g	15kg	55kg	180kg	1260kg
Material No.	602316394	601070846	602294609	602294623	602301840
Part No.	47450500	4745015	4745020	4745025	52061260

SPECIALTY GREASES

RENOLIT POLIPLEX SERIES

The RENOLIT POLIPLEX Series are lithium complex thickened greases that represent the most advanced lubricating technology. They are formulated for conditions of extreme pressure and temperature but are also ideal for general purpose applications. To increase the adhesiveness and film strength of Renolit Poliplex Series, they are manufactured with state of the art polymers. They also incorporate specially selected mineral oils, extreme pressure, anti-wear, rust and corrosion additives that gives them the performance properties to properly lubricate today's modern equipment.

RENOLIT POLIPLEX 1	450g	20L	55kg	180L
Material No.	602284402	602284396	602262486	601922886
Part No.	3861450	3861020	3861055	3861180
RENOLIT POLIPLEX 2	450g	20L	55kg	180L
Material No.	602281340	602281326	602230355	601363184
Part No.	1812450	1812020	1812055	1812180

SPECIALTY GREASES

AVOID BREAKDOWN MAINTENANCE WITH **RENOLIT EPLITH 00**

CHALLENGE

Equipment operating in underground coal mines is subject to the most arduous conditions possible. Contamination including dust and water, high loads and a demand for equipment utilisation means that lubricant and component life is often stretched to the limit. In some cases components leaking lubricants must continue to be operated for extended periods of time, until the machinery can be moved to a safe area and shut down for repairs and maintenance.

SOLUTION

FUCHS RENOLIT EPLITH 00 is a semifluid gear grease (NLGI 00 consistency), containing anti-oxidation and extreme pressure additives which allow it to be used for extended periods where high temperature and arduous loading conditions are experienced.

In the underground coal mining market, FUCHS customers use RENOLIT EPLITH 00 to replace mineral gear oils in equipment operating with

significant lubricant leaks. It is formulated to create a supplementary seal, where the original fluid seal has failed. The sealing properties serve to maintain lubrication in the compartment, while keeping contaminants out.

RENOLIT EPLITH 00 is readily compatible with mineral gear oils. It also has excellent yellow metal and elastomer compatibility, and extreme pressure and anti-wear performance equivalent to, if not exceeding, gear oils.

RESULTS

FUCHS underground coal mining customers use RENOLIT EPLITH 00 to slow or stop lubricant leaks, enough to get their critical mining equipment to the next available maintenance window. Break down maintenance is avoided, meaning equipment utilisation is maintained and production can continue.

RENOLIT EPLITH 00

RENOLIT EPLITH 00 is a lithium soap thickened grease containing a highly refined mineral oil lubricant. RENOLIT EPLITH 00 is a gear grease of NLGI 00 consistency, containing anti-oxidation and extreme pressure additives which allow it to be used for extended periods where high temperature and arduous loading conditions are experienced. Having a mineral oil base fluid,

RENOLIT EPLITH 00 is readily compatible with mineral gear oils making changeover convenient. RENOLIT EPLITH 00 grease has been tested on worm, spiral bevel, helical and straight tooth gears with every success. It is usually used in gearboxes that have operated satisfactorily on mineral oils, where the main requirement of such a lubricant is to extend both the lubricant service life and the maintenance periods.

PACK SIZES	20L	180L
Material No.	602280251	600046828
Part No.	1374020	1374180

RENOLIT EP X1

RENOLIT EP-X 1 is designed for, and particularly suited to, geared coupling applications where heavily loaded conditions exist. The additive treatment and the high viscosity of the base oil helps to minimise the wear damage which results from bearing surfaces coming into direct contact with each other. RENOLIT EP-X 1 is a lithium soap-thickened grease containing a high level of molybdenum disulphide. The grease also contains oil soluble additives to increase its load carrying capacity and reduce wear. RENOLIT EP-X 1 is also inhibited against corrosion and oxidation.

Pack Sizes	450g	20kg	180kg	1260kg
Material No.	602288073	602288028	602288042	602288035
Part No.	4546450	4546020	4546180	45461260

URETHYN MP 2

URETHYN MP 2 is a yellow-brown, mineral oil-based grease with homogeneous and soft structures. URETHYN MP 2 contains polyurea thickeners. A high temperature grease designed for plain and roller applications in, for example, electric motor bearings with very long grease intervals, low maintenance ventilator bearings, conveyor roller bearings in continuous casting plants, pump, ventilator and compressor bearings in the chemical industry.

Pack Sizes	450g	15kg	20kg	185kg
Material No.	602283214	601070310	602283207	602299222
Part No.	2441450	2441015	2441020	2441185

ELECTRIC MOTOR GREASES

RENOLIT GP 3

RENOLIT GP3 grease is a lithium soap grease based on mineral oil featuring properties like temperature stability, water resistance and easy pumpability.

RENOLIT GP 3 contains additives to improve corrosion protection and ageing resistance. It is suitable for temperatures from -30°C to +120°C. RENOLIT GP 3 is classified as K 3 K-30 according to DIN 51 502 and NLGI-grade 3.

Pack Sizes	250g	450g	20kg	180kg
Material No.	602283696	602283702	602283689	602294869
Part No.	2837240	2837450	2837020	2837180

RENOLIT PU-MA 2

RENOLIT PU-MA 2 is a fully synthetic, high temperature grease with organic thickener and solid lubricants.

RENOLIT PU-MA 2 has high thermal stability, long-term corrosion protection, good water resistance and optimal lubricity over a wide temperature range.

PACK SIZES	450g	20kg
Material No.	602288592	602288554
Part No.	4606450	4606020

Coolants

FUCHS Lubricants coolants are specifically formulated to withstand the harsh conditions of mining environments, providing superior heat dissipation and thermal stability to protect engines and machinery from overheating. Their anti-corrosion properties safeguard critical components against damage, extending equipment life and reducing maintenance costs.

PREMIXED

FRICOFIN HDD 50

FRICOFIN HDD 50 is a long term coolant based on mono ethylene glycol for heavy duty diesel applications, as well as stationary engines. FRICOFIN HDD 50 is free of amines and phosphates, combined with a low silicate technology, reliably preventing highly loaded engines from frost, overheating, corrosion and cavitation. This most efficient protection extends to all metals in the cooling system, especially aluminium.

Specifications

- ASTM D 3306 Type III
- ASTM D 5345
- ASTM D 6210 Type III-FF
- AS/NZS 2108:2004 Type A
- BS 6580:2010
- CHRYSLER MS 7170
- CHRYSLER MS 9769
- DETROIT DIESEL 7SE298
- FORD ESE-M97B44-A
- FORD ESE-M97B18-C
- FORD WSS M97B51-A1
- GM 1825M / GM 1899 M
- JIS K2234
- MACK 014GS17004
- SAE J814

Approvals

- MTU MTL 5048

Recommendations

- CASE MS 1710
- CAT EC-1
- CUMMINS CES 14603
- FREIGHTLINER 48-2288D
- IVECO 18-1830
- KENWORTH RO26-170-97
- MAN 324 TYPE N
- NEW HOLLAND WSN-M97B18-D

Pack Sizes	10L	20L	205L	1000L
Material No.	602286925	602286932	602286956	602286949
Part No.	4341010	4341020	4341205	43411000

FRICOFIN HDD-PG 50

FRICOFIN HDD-PG 50 is a long-life, ready to use coolant based on propylene glycol for heavy duty diesel applications, as well as stationary engines.

FRICOFIN HDD-PG 50 is free of amines and phosphates, combined with low silicate technology, reliably preventing highly loaded engines from frost, overheating, corrosion and cavitation. This most efficient protection extends to all metals in the cooling system, especially aluminium.

Specifications	Approvals	Recommendations
<ul style="list-style-type: none"> ASTM D 3306 ASTM D 6210 Type IV-FF ASTM D 7583 TMC RP 330 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> CUMMINS CES 14603 DETROIT DIESEL 7SE 298 KENWORTH R026-170-97 MACK 014GS17004 MAN 324 TYPE N MTU MTL 5048 NEW HOLLAND (WSN-M97B18-D)

Pack Sizes	20L	1000L
Material No.	602287878	602287885
Part No.	4519020	45191000

FRICOFIN DP 50

BluEV
TECHNOLOGY

Ultra high performance coolant ready-mix based on monoethylene glycol. Offers frost protection down to -35°C. Free from nitrite, amine and phosphate.

FRICOFIN DP 50 is a coolant ready mix based on monoethylene glycol and demineralized water for commercial vehicle and passenger car engines as well as stationary installed combustion engines. As a premixed Si-OAT antifreeze it combines inhibitors of organic acids with highest change intervals with fast reagent silicates.

FRICOFIN DP 50 is free of nitrite, amine and phosphate.

Specifications	Approvals	Recommendations
<ul style="list-style-type: none"> AFNOR NF R 15-601 TYPE 3 ASTM D 3306 TYPE III ASTM D 4985 BS 6580:2010 SAE J814 	<ul style="list-style-type: none"> CUMMINS CES 14603 DEUTZ DQC CC-14 DETROIT DIESEL 93K217 DTFR 29D120 (former MB 326.5) MAN 324 TYPE Si-OAT MB-APPROVAL 326.6 MTU MTL 5048 VW TL 774-G (G12++) VOITH (172.00225040 – Type Si-OAT) 	<ul style="list-style-type: none"> ASTM D 6210 TYPE III IVECO 18-1830 MB 326.5 PN-C 40007:2000 SCANIA TB 1451 VW TL 774-J (G13)

Pack Sizes	20L	205L	1000L
Material No.	602291127	602291141	602314284
Part No.	4898020	4898205	48981000

Wire Rope & Chain Lubricants

WIRE ROPE LUBRICANTS

CENTIGARD DRL B1000

CENTIGARD DRL B 1000 has been specially developed to meet the demanding requirements of wire rope and sheave lubrication on draglines. When applied frequently and correctly, this product penetrates to the rope core, coating the wire strands with a protective corrosion resistant lubricating film. The product is based on highly refined mineral oils, compounded with additives that impart enhanced anti-rust, tackiness, water-repellency and water displacing characteristics.

CENTIGARD DRL B 1000 is also fortified with solid lubricants to convey truly superior anti-wear characteristics. CENTIGARD DRL B 1000 offers exceptional boundary lubrication properties between sheave and rope. Regular application of CENTIGARD DRL B 1000 ensures resistance to wire rope deterioration by either fatigue or corrosion, especially when operating in wet, arduous conditions.

Pack Sizes	1L	20L	205L	1000L
Material No.	400373308	602283948	602255099	602255082
Part No.	3269000	3269020	3269205	32691000

CENTIGARD 499X

CENTIGARD 499X is based on a selected low viscosity, highly refined mineral lubricating oil, into which additives for rust prevention, water displacement and water repellency have been blended. This grade is used in a variety of lubricant/corrosion prevention of metals applications, which range from treating components prior to short-term storage to the lubrication and protection in use of friction driven winding wire ropes. This grade, due to its low viscosity and additive treatment, when used as a wire rope dressing in friction drive applications exhibits excellent penetration properties which enables lubrication, dewatering and corrosion protection of the wire rope strands through to the core, thus protecting the rope against deterioration due to fatigue or corrosion.

CENTIGARD 499X is recommended for use on lift suspension, compensating and governor ropes in addition to mine hoist ropes on friction type winders. When used on friction driven winding ropes, CENTIGARD 499X should be used sparingly and applied manually to a descending rope with any excess product being removed from the ascending rope to prevent slippage occurring.

Pack Sizes	1L	20L	205L
Material No.	400373308	602280015	602220592
Part No.	1211000	1211020	1211205

CHAIN LUBRICANTS

UNILUBE CHAIN & BAR

The UNILUBE CHAIN & BAR range is designed for the lubrication of both fixed and mobile equipment which is operating under normal to harsh conditions. They contain additives which allow for improved adhesion to the components for reduced fling-off, as well as excellent anti-wear and corrosion protection properties to ensure the long life of the equipment. The UNILUBE CHAIN & BAR range can be used on chains and bars in all applications from home use to the harshest forestry applications, as well as fixed and mobile equipment. For wire ropes the product has excellent penetrating properties to ensure that the product protects the rope from the inside, as well as forming a barrier on the surface of the rope to assist in reducing overall wear.

UNILUBE CHAIN & BAR LIGHT	1L	200L			
Material No.	602268532	602268549			
Part No.	4499001	4499200			
UNILUBE CHAIN & BAR MEDIUM	20L	200L	1000L		
Material No.	602287632	602287656	602287649		
Part No.	4494020	4494200	44941000		
UNILUBE CHAIN & BAR HEAVY	1L	5L	20L	200L	1000L
Material No.	602287670	602287687	602287694	602287717	602287700
Part No.	4494020	4494200	4494020	4494200	44941000

Ancillary Fluids



ANCILLARY FLUIDS

PLANTOTAC CSR

PLANTOTAC CSR is a general purpose lubricant based on a renewable, high VI polar base stock. The polarity of the base fluid when compared with conventional mineral oil based products promotes greater adherence to metallic surfaces. PLANTOTAC CSR has proven itself in difficult areas of chain and general purpose lubrication where a tenacious lubricant film is required. The natural tackiness of the lubricating film allows for reduced oil consumption and maximum resistance to "fling off" from moving chains, sprockets and areas where an adhesive oil is required. PLANTOTAC CSR is greater than ninety percent biodegradable as measured by CEC-L-33-T-82. This product can be termed rapidly biodegradable and can be regarded as the premium choice lubricant in total loss lubrication applications.

Pack Sizes	1L	205L	1000L
Material No.	400372004	602283061	602283054
Part No.	2357000	2357205	23571000

RIMGUARD PLUS PREMIX

RIMGUARD PLUS PREMIX is a multipurpose additive that prolongs tyre life by functioning as a corrosion inhibitor, tyre coolant, sealant and leak detector.

Pack Sizes	1L
Material No.	602697752
Part No.	5219777

ADBLUE

Additive for injection into diesel SCR exhaust systems (NOx reduction in exhaust gases).

Pack Sizes	15L	210L	1000L
Material No.	800467553	800467560	800466983
Part No.	4414015	4414210	44141000

ANCILLARY FLUIDS

ERGON HYVOLT SERIES

ERGON HyVolt I is a Type B, TVBU uninhibited premium dielectric fluid meeting the latest requirements of IEC 60296:2020 general specifications and special applications according to ASTM D3487:2016 as well as CSA C50-14 Class A and B standards. HyVolt I has a very low pour point, excellent oxidation stability and electrical properties, making it suitable for the most demanding requirements established by leading global transformer manufacturers. No recycled oils are used in ERGON HyVolt I.

ERGON HyVolt III is a Type A, TVAI inhibited premium dielectric fluid meeting the latest requirements of IEC 60296:2020 general specifications and special applications according to ASTM D3487:2016 as well as CSA C50-14 Class A and B standards. ERGON HyVolt III has a very low pour point, excellent oxidation stability and electrical properties, making it suitable for the most demanding requirements established by leading global transformer manufacturers. No recycled oils are used in ERGON HyVolt III.

Specifications

- IEC 60296 ed.5, 2020, general requirements and special applications, including full declaration of additives per Clause 6.11.1
- AS60296:2017
- Doble TOPS
- ASTM D3487-16 including full declaration on additives per Section 4.4
- CSA C50-14 Class A and B, Type II and IV standard requirements
- Corrosive Sulfur tests: ASTM D1275, DIN 51353 and IEC 62535

ERGON HYVOLT I	180L	1000L
Material No.	800468833	800468840
Part No.	5155180	5155880
ERGON HYVOLT III	1000L	
Material No.	800468840	
Part No.	5156180	

Storage Fluids



STORAGE FLUIDS

ANTICORIT VCI UNI 0-40

ANTICORIT VCI UNI 0-40 is a rust-preventive oil with unique properties. It contains built in VCI inhibitors. In a closed system it therefore sets free the protective VCI-vapours over a long period of time. It is the ideal rust preventive for fuel tanks, gearboxes and similar "closed systems". ANTICORIT VCI UNI 0-40 protects iron, steel, copper, brass, bronze and other metals without direct contact with the metal surface by the vapour phase. For each m³ of void space to be protected, only 0.3 – 0.4 litres (300 - 400 mL) of ANTICORIT VCI UNI 0-40 is needed.

Pack Sizes	1L
Material No.	602295040
Part No.	2925020

ANTICORIT BW 366

The waxy residual film produced by ANTICORIT BW 366 is suitable for protection of press dies, casting moulds, machinery, spare parts, tools, machined parts, etc. It is also suitable for use as an underseal protectant and panel deadener for motor vehicles. The residual film has self-healing properties and excellent salt spray resistance. This ensures maximum protection of machinery and components that are treated with ANTICORIT BW 366.

Pack Sizes	1L
Material No.	602295019
Part No.	1106010

ANTICORIT DFO

Anticorit DFO contains a unique combination of proprietary components, which rapidly penetrate and displace moisture from metal surfaces to provide a strongly adhered corrosion resistant film. The combination of selective wetting agents and film forming inhibitors are ideal for applications, which have been machined with water miscible fluids, electroplated or phosphated. Typical applications include surface protection of small mass produced components such as turntables of automatic machines, razor blades and precision measuring equipment. This product complies with the requirements of MDG 3006 MRT 2 (April 1995) section 4 for use in underground mining applications. 300ml is an aerosol can using CO₂ as propellant.

Pack Sizes	300ml	20L	205L
Material No.	602294715	602279903	602279910
Part No.	1111300	1111020	1111205

PRODUCT FEATURE

PLANTO DRILLSAFE 100

PLANTO DRILLSAFE 100 is an air line lubricant for use with pneumatic tools to reduce the health risks associated with inhalation, designed specifically for underground mining.

CHALLENGE

Workers experienced health concerns when using mineral lubricating oilbased aerosols, mist and vapours that are emitted in the equipment exhaust. In pneumatic tools, due to air expansion, the temperature inside the tool may be appreciably below that of the surroundings.

SOLUTION

PLANTO DRILLSAFE 100 when compared to mineral oil based lubricants is environmentally harmless, rapidly biodegradable and is ecologically beneficial since it protects the environment, prevents contamination of ground water and helps to maintain human, animal and vegetable health.

PLANTO DRILLSAFE 100 has been formulated to enable free flow through air line lubricators or integral oilers at the low temperatures which may be encountered. A further characteristic of expanding air is that the

relative humidity increases with decreasing temperature, and unless the air has been specially dried, water vapour will condense out on the working surfaces of the pneumatic tool.

APPLICATIONS

PLANTO DRILLSAFE 100 has been adopted on a range of air operated equipment such as monorails, inline oil lubricators (turtle lubricators) etc.

Given the success of PLANTO DRILLSAFE 100, this product has been adopted as the preferred air line lubricant in the underground mining industry.

Performance Features

- Mineral oil free
- Rapidly biodegradable
- Excellent water absorption capabilities
- Exceptional protection against wear
- Superb low temperature qualities
- Based on natural vegetable esters that are harvested in Australia.

Degreasers & Cleaners

FUCHS degreasers and cleaners offer powerful and efficient solutions for mining applications, ensuring equipment and surfaces remain clean and well-maintained in demanding environments. These products are formulated to remove heavy grease, oil, and dirt buildup quickly and effectively, improving the performance and lifespan of mining machinery.



WATER BASED CLEANING PRODUCTS

RENOCLEAN ECOSOLVE

RENOCLEAN ECOSOLVE is highly effective for removing most soils including dirt, mud, grime, oil and soot.

RENOCLEAN ECOSOLVE is a biodegradable, solvent-based, heavy duty wash with "quick-break" properties. RENOCLEAN ECOSOLVE is formulated to effectively clean heavy mining and industrial equipment such as dump trucks, cranes, prime movers, trailers, dozers and excavators.

Pack Sizes	20L	200L	1000L
Material No.	800466693	800466709	800469076
Part No.	3919020	3919200	39191000

RENOCLEAN QBV WASH

RENOCLEAN QBV WASH is a heavy-duty detergent-based cleaning product possessing quick break properties, formulated to meet the stringent requirements of the transportation industry for a high-pressure cleaning solution. It is a biodegradable heavy-duty detergent which can be used for virtually all cleaning applications, including pressure cleaning, steam cleaning, heavy duty vehicle washing and for many other industrial applications.

Pack Sizes	20L	205L	1000L
Material No.	800466365	800466389	800466372
Part No.	2651020	2651205	26511000

RENOCLEAN HEAVY WASH

RENOCLEAN HEAVY WASH is a non-caustic, heavy duty truck wash. Biodegradable and streak free.

RENOCLEAN HEAVY WASH is a concentrated, water-based, high performance and non-caustic truck wash. This product effectively removes road grime and dirt from all surfaces including plastic, rubber, chrome, aluminium and paintwork.

Pack Sizes	5L	20L	205L	1000L
Material No.	800467065	800467072	800467096	800467089
Part No.	4520005	4520020	4520205	45201000

SOLVENT BASED CLEANING PRODUCTS

RENOCLEAN QBD PLUS 65

RENOCLEAN QBD Plus 65 is a solvent based degreasing solution developed to dissolve oil and grease residues. This allows easy emulsification and removal of contaminants from soiled components. Renoclean QBD Plus 65 is suitable for heavy duty degreasing operations where a versatile solvent based cleaner is required. It does not affect any common metals and is easily removed by rinsing with water. RENOCLEAN QBD Plus 65 was developed to be compatible with triple interceptor pits and most conventional oil separator units, allowing for fast separation of the oil and solvent residues from washing/cleaning systems. RENOCLEAN QBD Plus 65 is soluble in oil and water.

Pack Sizes	205L	1000L
Material No.	602283733	602283726
Part No.	2844205	28441000

RENOCLEAN DEGREASER 9110

RENOCLEAN DEGREASER 9110 is a solvent based degreasing solution developed to dissolve oil and grease residues.

RENOCLEAN DEGREASER 9110 is suitable for heavy duty degreasing operations where a versatile solvent based cleaner is required. It does not affect any common metals and is easily removed by rinsing with cold water.

Pack Sizes	300ml	20L	205L	1000L
Material No.	602282507	602282477	602282491	602282484
Part No.	2125300	2125020	2125205	21251000

RENOCLEAN BRAKE CLEANER

RENOCLEAN BRAKE CLEANER is an automotive brake and parts cleaner.

RENOCLEAN BRAKE CLEANER is formulated to quickly and safely remove brake fluid, grease, oil and contaminant from brake pads, linings, drums, callipers and other automotive parts.

Pack Sizes	20L
Material No.	602288707
Part No.	4636020

RENOCLEAN PARTSWASH

RENOCLEAN PARTSWASH is a solvent based degreasing solution developed to dissolve oil and grease residues. This allows easy emulsification and removal of contaminants from soiled components.

RENOCLEAN PARTSWASH is suitable for heavy duty degreasing operations where a versatile solvent based cleaner is required. It does not affect any common metals.

Pack Sizes	20L
Material No.	602283108
Part No.	2419020



Dust Suppressants

RENOCLEAN AIR HOLD-DOWN

Combination of natural binding and wetting agents. On evaporation of the diluent water, the residues bond particles together to hold dust down. Additionally, the product has a humectant property that helps retain latent moisture.

Pack Sizes	205L	1000L
Material No.	602283733	602283726
Part No.	2844205	28441000

RENOCLEAN AIR LOCK-DOWN

A high performance dispersed polymeric binding agent. On evaporation of the diluent water, the residues cure to form a resilient, flexible film that locks the dust down by crusting loose surfaces. Typically applied at 5 -10 %. Robust and persistent control against the effects of wind, vehicles and heavy equipment. Long-lasting and rain-resistant.

Pack Sizes	1000L
Material No.	602291585
Part No.	49391000

RENOCLEAN AIR SPRAY-DOWN

Additive for water-spray systems. A potent combination of wetting agents; effective even at high dilution. Greatly increases the ability of water to adhere to and spread-out over air-borne particles. Improves the ability of water to penetrate and dampen loose surfaces. Facilitates the de-scaling in piping, cooling and spray systems. Reduction of deposits and maintenance cost.

Pack Sizes	1000L
Material No.	602291592
Part No.	49401000

Specialty Fire Resistant Hydraulic Fluids

SOLCENIC GM20

SOLCENIC GM20 has been developed as a fire resistant hydraulic fluid of the HFA-E type to meet the high performance needs of longwall operators and OEMS. Solcenic GM20 exceeds the requirements of all major longwall OEM's and has been proven to provide superior performance in all areas of operation, safety and environment. Solcenic GM20 combines highly refined additives with a proven track record in this application with the latest in emulsion technology. This combination of additives has been optimised to produce an extremely balanced and clean operating fluid with unrivalled performance at low concentration. Solcenic GM20 demonstrates excellent lubricity characteristics and is highly compatible with an extensive range of elastomer types, resulting in reduced maintenance and consumption costs.

Approvals

- NSW DPI (MDG 300:MRT 2)
- Joy Mining Machinery @ 2% operating concentration
- Joy Mining Machinery @ 3% operating concentration
- CAT @ 2% operating concentration
- Tiffenbach @ 2% operating concentration

Recommendations

- Zhengzhou Coal Mining Machinery Group Co. Ltd (ZMJ)
- China Coal Beijing Mining Machinery Co. Ltd (BMJ)
- Famur

Pack Sizes	20L	1000L
Material No.	602286420	602286437
Part No.	4260020	42601000

SOLCENIC GM20 D

A high performance dispersed polymeric binding agent. On evaporation of the diluent water, the residues cure to form a resilient, flexible film that locks the dust down by crusting loose surfaces. Typically applied at 5 - 10 %. Robust and persistent control against the effects of wind, vehicles and heavy equipment. Long-lasting and rain-resistant.

Approvals

- NSW DPI (MDG 3006:MRT 2)
- Joy Mining Machinery @ 2% operating concentration
- Joy Mining Machinery @ 3% operating concentration
- CAT @ 2% operating concentration
- Tiffenbach @ 2% operating concentration

Recommendations

- For use in all powered roof support systems where a high performance and low concentration fire resistant hydraulic fluid is required. Recommended operating concentration of 2%

Pack Sizes	1000L
Material No.	400372493
Part No.	4633000

SOLCENIC GM20 D PLUS

SOLCENIC GM20 D PLUS is specifically designed for use as a fire resistant hydraulic fluid in powered roof support systems utilised in the coal mining industry. SOLCENIC GM20 D PLUS is supplied in concentrate form and is designed for mixing on site with suitable diluent water at 2% min. operating temperature. SOLCENIC GM20 D PLUS emulsion is compatible with all fire resistant hydraulic fluids type HFA. Compatibility of concentrates however cannot be guaranteed, and as such Fuchs Lubricants does not recommend the mixing of the concentrate form of the product. SOLCENIC GM20 D PLUS has a proven track record of high performance in all key mining regions with all major OEMs, currently operating in over 30 longwalls globally.

Approvals

- NSW DPI (MDG 3006:MRT 2)
- Joy Mining Machinery @ 2% operating concentration
- Joy Mining Machinery @ 3% operating concentration
- CAT @ 2% operating concentration
- Tiffenbach @ 2% operating concentration

Recommendations

- For use in all powered roof support systems where a high performance and low concentration fire resistant hydraulic fluid is required. Recommended operating concentration of 2%

Pack Sizes	1L	1000L
Material No.	602291783	602291776
Part No.	4979777	49791000

HYDRAULIC FLUIDS

SOLCENIC GM20 3%

Solcenic GM20 is specifically designed for use as a fire resistant hydraulic fluid in powered roof support systems utilised in the coal mining industry. Solcenic GM20 premix emulsion is supplied in a premixed emulsion form at 3% operating concentration. Solcenic GM20 emulsion is compatible with all fire resistant hydraulic fluids type HFA. Solcenic GM20 has a proven track record of high performance in all key mining regions with all major OEMs. Currently operating in over 30 longwalls globally. Recommended for use in all powered roof support systems where a high performance and low concentration fire resistant hydraulic fluid is required.

Approvals

- NSW DPI (MDG 3006:MRT 2)
- Joy Mining Machinery @ 2% operating concentration
- Joy Mining Machinery @ 3% operating concentration
- CAT @ 2% operating concentration
- Tiffenbach @ 2% operating concentration

Pack Sizes	1000L
Material No.	602287052
Part No.	43551000

SOLCENIC ECOPRO

SOLCENIC ECOPRO was developed for use as a dual function pressure test fluid and storage fluid for hydraulic cylinders in storage and transit. SOLCENIC ECOPRO is a solution formed with superior corrosion protection additives and is designed to provide optimum corrosion inhibition in the liquid and vapour phase, bio-stability and protection against temperatures extremes during periods of storage. SOLCENIC ECOPRO is provided ready to use with no mixing or diluting required. SOLCENIC ECOPRO is compatible with all commonly used longwall fluids ensuring easy transition into operation. SOLCENIC ECOPRO is free of Ethylene Glycol for a more environmentally friendly product.

Approvals

- CAT - EWN 8350 Part 4
- Joy - CTR 04-20

Recommendations

- Test fluid for hydraulic roof supports and valve systems
- Corrosion inhibiting storage fluid for transit and pre-installation of hydraulic roof supports

Pack Sizes	205L	1000L
Material No.	602289407	602289391
Part No.	4692205	46921000

SOLCENIC ASSEMBLY GEL

Solcenic LW Assembly Gel is a superior soluble gel that incorporates additives to provide lubrication and corrosion protection to staple lock hydraulic hoses and fittings. Solcenic LW Assembly Gel exhibits superior solubility and is ideal for applying to new - static and dynamic seals during assembly of new or rebuilt hydraulic cylinders. Solcenic LW Assembly Gel is both fully compatible and soluble with the working emulsion which makes for no downstream concerns with filtration or interference with functional components of the roof support control system.

Approvals

- Joy Mining Machinery
- UK Coal

Pack Sizes	200ml
Material No.	602285362
Part No.	40680002

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