

Surface Mining

Product	Description	Advantages	Approvals/Specifications/Recommendations
RENOLIN XTREME TEMP	AW – circulating and hydraulic oils with a high viscosity index, high shear stability and extremely good air release properties.	<ul style="list-style-type: none"> ■ Reduces fuel consumption while offering high efficiency ■ Extends service life with the added benefits of less maintenance requirements and failure related downtime ■ Broad temperature range 	RENOLIN XTREME TEMP 46 is specified in line with DIN 51 524-3 and ISO 11158-HV and fulfills/exceeds their requirements.
RENOLIN CLP PLUS	Long-term approved special gear oils with extremely high aging stability and excellent detergency (DD) – self-cleaning oils.	<ul style="list-style-type: none"> ■ Very good aging resistance (AO booster) ■ Longer lifetime compared to conventional industrial gear oils ■ Low friction, reduced oil sump temperature, increased efficiency ■ Excellent detergent/dispersant properties (sludge carrying capacity) ■ Excellent micro-pitting protection ■ Excellent bearing wear protection – low wear in the FE8 test ■ Excellent load carrying capacity, high EP performance ■ Low foaming 	<p>RENOLIN CLP PLUS Series products fulfills/exceeds the requirements according to:</p> <ul style="list-style-type: none"> ■ DIN 51 517-3: CLP ■ ISO 6743-6: and ISO 12925-1: CKC/CKD ■ AGMA 9005/E02: EP <p>RENOLIN CLP PLUS Series products are approved by:</p> <ul style="list-style-type: none"> ■ Friedrich Flender AG, Bocholt, Germany, Flender ■ BA 7300, table A ■ Bosch Rexroth (Lohmann + Stolterfoht, Witten, Germany)
RENOLIN UNISYN CLP	Demulsifying, fully-synthetic industrial gear oils with elevated aging resistance, excellent load carrying capacity and wear protection. RENOLIN UNISYN CLP oils have excellent resistance to micro-pitting. Its reliable lubrication of roller bearings is confirmed by the good results of FE8 testing. It simplifies the conversion process.	<ul style="list-style-type: none"> ■ Low foaming ■ Good air release capacity ■ Very good aging resistance ■ Excellent corrosion protection ■ Excellent viscosity temperature behavior ■ High natural VI (Viscosity Index) ■ Multi-grade character ■ Excellent wear protection, high EP performance ■ Miscible with mineral oil and ester-based gear oils ■ For high and low operating temperatures 	<p>RENOLIN UNISYN CLP Series oils are recommended for all industrial applications where CLP type synthetic oil is recommended by the manufacturer according to DIN 51517-3. Highly stressed straight bevel gears, spiral bevel gears, worm gears, planetary gears and heavily loaded bearings can be reliably lubricated and protected even at short-term peak temperatures up to 150 °C.</p> <p>RENOLIN UNISYN CLP Series is approved by:</p> <ul style="list-style-type: none"> ■ Siemens-Flender AG ■ Bocholt
RENOLIT CXS GSM (S/W)	A 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.	<ul style="list-style-type: none"> ■ Multi-purpose/high temperature/high performance ■ Excellent water resistance ■ Very shear stable ■ Extreme pressure/anti-wear/corrosion protection ■ Synergistic solids additive system ■ Corrosion resistant ■ Protects against shock loading 	<p>Meets/exceeds key performance requirements of:</p> <ul style="list-style-type: none"> ■ Bucyrus ■ Caterpillar ■ Komatsu ■ Liebherr ■ LeTourneau
RENOLIT CENTAK OG (S/W)	RENOLIT CENTAK OG is a high performance multi-service lubricant designed for open gears and highly loaded components in severe duty mining applications. It is fortified with high viscosity base oils, select polymers and lubricating solids along with chemical anti-wear (AW) and extreme pressure (EP) additives.	<ul style="list-style-type: none"> ■ Rapidly establishes a tenacious lubricant film ■ Protects gear teeth, bearing surfaces and other components when subjected to extreme operational and environmental conditions ■ Superior film retention and adhesion to the components allows for extended lubrication intervals 	<ul style="list-style-type: none"> ■ Meets/exceeds key performance requirements of Bucyrus SD4713, P&H 464 and P&H 520 ■ Multi-service lubricant for use on shovels and draglines ■ Special solid lubricants for boundary lubrication conditions ■ Exceptional lubricant film retention and component adhesion ■ Extreme pressure/anti-wear protection extends component life ■ Excellent resistance to wet and freezing conditions
RENOLIT LUBRENE WALKING CAM COMPOUND	A non-heated automatic system application lubricant for the Monihgan walking cam mechanism on Bucyrus-Erie drag-lines.	Eliminates the use of drum heaters and greatly simplifies maintenance and ease of application.	The Lubrene Walking Cam Compound has been used with great success in South African mines since 1992 with applications of as little as 4g per step. The 20+ draglines using Lubrene Cam Compound have not had a lubricant related failure since its inception.

Dust Suppressant

Product	Description	Advantages	Approvals/Specifications/Recommendations
RENOCLEAN AIR SPRAY DOWN	<p>RENOCLEAN AIR SPRAY-DOWN is an additive for water-spray systems to greatly improve the wetting ability of water to reduce dusts. It has a potent combination of wetting agents for effectiveness on dust generated from multiple sources. It increases the ability of water to adhere to and spread out over airborne particles.</p> <p>In addition, it improves the ability of water to penetrate and dampen loose surfaces thereby facilitating descaling in piping, cooling and spray systems.</p>	<ul style="list-style-type: none"> ■ Improves air quality ■ Increases visibility ■ Reduces water consumption ■ Easy to mix and apply ■ Low odor ■ Lowers maintenance costs ■ Reduces housekeeping ■ No hazardous labeling ■ Non-corrosive ■ Globally available formulations ■ Worldwide technical back-up 	<p>RENOCLEAN AIR SPRAY DOWN is a surfactant that reduces the surface tension of water to penetrate and dampen airborne dust. This product is diluted in spray water to a 0.02%-0.05% ratio. The main application is used in underground spray water for cutting machines. This product can be used in any application where spray water is used to suppress dust. We have a specific pump system that was designed to inject this product at the desired ratio available.</p> <ul style="list-style-type: none"> ■ Typically used at concentrations of 0.02%-0.05%
RENOCLEAN AIR HOLD DOWN	<p>RENOCLEAN AIR HOLD DOWN utilizes a combination of natural binding and wetting agents to bind dust particles together. Upon evaporation of the diluent water, the residues bond particles together to hold dust emissions down. Subsequent re-treatment will increase the residues remaining in the soil to bind particles. Additionally, the product has a humectant property that helps retain latent moisture.</p> <p>RENOCLEAN AIR HOLD DOWN is supplied as a concentrate that is diluted to the desired ratio using locally available water.</p>	<ul style="list-style-type: none"> ■ Improves air quality ■ Increases visibility ■ Reduces water consumption ■ Easy to mix and apply ■ Low odor ■ Lowers maintenance costs ■ Reduces housekeeping ■ No hazardous labeling ■ Non-corrosive ■ Globally available formulations ■ Worldwide technical back-up ■ Environmentally friendly 	<p>RENOCLEAN AIR HOLD DOWN is a polymeric binding and wetting agent. This product is mixed with water at a 2%-10% ratio and applied. While the polymeric properties help bind the dust particles together and stop them from becoming airborne the wetting agent helps maintain moisture in the ground. This product is designed for roadway dust suppression.</p>
RENOCLEAN AIR LOCK DOWN	<p>RENOCLEAN AIR LOCK DOWN is a high performance dispersed polymeric binding agent. Upon evaporation of the diluent water, residues cure to form a resilient, flexible film that locks the dust down by crusting loose surfaces.</p> <p>RENOCLEAN AIR LOCK DOWN is a robust and persistent control against the effects of wind, vehicles, and heavy equipment. It is long-lasting and rain resistant.</p>	<ul style="list-style-type: none"> ■ Improves air quality ■ Increases visibility ■ Reduces housekeeping ■ Lowers maintenance costs ■ Globally available formulations ■ Reduces water consumption ■ Worldwide technical back-up ■ No hazardous labeling ■ Non-corrosive ■ Easy to mix and apply ■ Low odor ■ May reduce explosion hazards 	<p>RENOCLEAN AIR LOCK DOWN is a dispersed polymeric binding agent. This product is mixed with water at a 2%-10% ratio and applied. Upon evaporation of the diluent water, the residues cure to form a flexible film to lock down the dust. It is typically used on stockpiles and rail cars of dusty material (primarily coal currently).</p> <ul style="list-style-type: none"> ■ Typically applied at 5%-10%

FUCHS LUBRICANTS CO.
17050 Lathrop Avenue
Harvey, IL 60426 United States
Phone +1 708-333-8900
E-mail: inquiry@fuchs.com
www.fuchs.com/us

FUCHS LUBRICANTS CANADA LTD.
(Eastern Division)
405 Dobbie Drive
Cambridge, Ontario
N1R 5X9
Canada
Phone +1 519-622-2040
E-mail: custservcambridge@fuchscanada.com
www.fuchs.com/ca

FUCHS LUBRICANTS CANADA LTD.
(Pacific Division)
19829 99A Avenue
Langley, British Columbia
V1M 3G4
Canada
Phone +1 604-888-1552
E-mail: custservpacific@fuchscanada.com
www.fuchs.com/ca

LUBRICANTES FUCHS DE
MEXICO, S.A. DE C.V.
Acceso C No. 101
Parque Industrial Jurica
76120 Querétaro, Qro.
Mexico
Phone +52 (442) 2 38 91-00
E-mail: info@fuchs.com.mx
www.fuchs.com/mx