



LubeCon Series KCL 46

Kiln Chain Lubricant

Description

LubeCon Series KCL is a high-performance synthetic chain lubricant formulated for the high temperature lubrication requirements found in the Drywall/Gypsum industry. Utilizing an advanced blend of esters and synthetic fluids, LubeCon Series KCL exhibits extremely low volatility allowing for reduced lubricant consumption and a reduction in the deposition of residues.

LubeCon Series KCL supports fluid film lubrication on chain pins and trolleys over a broad range of temperatures. The formulation includes anti-wear additives for enhanced boundary lubrication protection against surge loads and temperature extremes while also incorporating a package of corrosion and oxidation inhibitors.

Application

- LubeCon Series KCL is formulated for lubrication of roller chains and conveyor components benefiting from high temperature synthetic lubricant.
- LubeCon Series KCL is designed and most effective for chain operating temperatures between 350°F/175 °C and 575 °F/300 °C.
- LubeCon Series KCL is designed for application using automatic lubrication systems.

Advantages

- Extremely low volatility reduces application rate and frequency for reduced overall lubricant consumption.
- Minimal residue formation plus self-clean action minimizes housekeeping.
- Pre-existing gum, varnish and carbonaceous residues are dissolved for easy removal.
- Lower lubricant application rates minimize dripping for reduced process contamination.
- Superior fluid film and anti-wear properties result in extended conveyor component life and reduced friction for potential energy savings.
- Low VOCs contribute to a cleaner, safer workplace environment and improved operator acceptance.

Characteristics

	Unit	Test Method	Value
Specific Gravity	@ 60°F (16°C)	ASTM D-1298	0.928
API Gravity	@ 60°F (16°C)	ASTM D-1298	21
ISO Viscosity Grade	-	ASTM D-2422	46
Viscosity	@ 100 °F	ASTM D-445, SUS	235
Viscosity	@ 210 °F	ASTM D-445, SUS	52
Viscosity	@ 40 °C	ASTM D-445, cSt	46
Viscosity	@ 100 °C	ASTM D-445, cSt	7.6
Viscosity Index	-	ASTM D-2270	131
Pour Point	°F/°C	ASTM D-97	- 40 / -40
Flash Point	°F/°C	COC	445 / 229
Fire Point	°F/°C	COC	470 / 243
Rust Protection	-	ASTM D-665	Pass
Four Ball Wear Test	40kg,75°C/167° 1800 rpm, 1 hr	Scar Diameter, mm	0.39
Conradson Carbon Residue	wt %	ASTM D-189	0.08
Falex Pin & Vee Block wear	Wear teeth	ASTM D-2670	9
Falex Pin & Vee Block EP Direct Load Fail Stage	lbs	ASTM D-3233	1250

Subject to usual manufacturing tolerances

Additional Information

LubeCon Series KCL high temperature conveyor lubricant is compatible with petroleum based and most synthetic based lubricants. While LubeCon Series KCL can dissolve even hardened chain deposits left by previously used lubricant, it is recommended that the chain be thoroughly cleaned prior to changeover to obtain maximum benefit. If this is not feasible, run the chain through several cycles under no-load conditions when first applying LubeCon Series KCL.

LubeCon Series KCL should not be used around parts containing poly-carbonates as it can have a softening effect. Under no circumstances should it be used in conjunction with neoprene seals.

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