

SMB 20K FLUIDPRESS Biodegradable (Heavy Duty Sugar Mill bearing oil)

(Certified & Approved by NSF Organization, Company No: C077291 NSF registration No: 166842)

DESCRIPTION:

SMB 20K FLUIDPRESS is a premium lubricant of a new generation developed specifically for the lubrication of medium-size to large girth gear drives and journal bearings. It is semi-synthetic high performance biodegradable organic fluids blend with very high viscosity base oil and synthesized hydrocarbons, resulting in “gel-type” compounds with thixotropic properties, which ensures thicker and stronger film stability form a ring is capable to resist the large heavy loaded in roller mill bearings & large girth gear drives at minimal consumption. It contains small dosage of synthetic (PAO) ester additives with white solid lubricants Mox-Active (Organo Molybdenum Complex) technology an improvement additive creates a passive film on friction surfaces before friction occurs, optimum wear protection and an extremely low coefficient of friction even under extreme pressures, vibrations & heavy shock loads.

SMB 20K FLUIDPRESS additive is non-toxic ecofriendly and chemistry provides high shock loads and heavy vibration, high temperature & low speed both exist in indoors and outdoors in both cold & high temperature applications and gives high protection by minimizing metal-to-metal contact and wear of the friction elements, avoiding seizure & expensive repairs.

SMB 20K FLUIDPRESS lubrication has much better and good in performance compared to metallic soap greases because it doesn't block up pipes, which usually happens because of the oil, soap & solid lubricant separation when working under high hydraulic pressure generated by the pumps of centralized and Individualized systems. It has been formulated to environmental protection engineering norms, it doesn't contain any bitumen, heavy metals, chlorine and solid particles or any other type of solvents. It is biodegradable & non-toxic: 93.82%.

FEATURES AND BENEFITS

- Excellent wear protection due to formation of an extreme thick lubricating film.
- Very high load carrying capacity due to a special high performance additive combination.
- Noise and vibration reducing properties resulting from the high lubricating film thickness
- Extends bearings life and gives longer relubrication intervals.
- Highly loaded bearings in water/steam contaminated environment, no need for external cooling.
- Excellent flow and pump-ability for automatic centralized and Individualized systems.
- Thermally stable, can withstand high shock loads, and minimizing metal to metal contact.
- Good sealing properties against hot water, cane juice and dirt-laden environments.
- High drop point ensures extended operating temperature range upto -10°C to 160°C.
- Extreme high adhesive power on metal surfaces, Low consumption & Immediate monetary savings, High protection against seizure and wear, avoiding expensive repairs.
- Biodegradable Organic fluid with non-bituminous, non-toxic additive and Environment friendly.
- Elimination of accidents occurring by spills of asphaltic oils & other graphite greases and environmental impact caused by the big volumes of lubricant waste commonly generated in sugar industry.

FORMS OF APPLICATION AND USES

- **SMB 20K FLUIDPRESS** has been designed to lubricate: - Journal, Roller & Sleeve bearings, Transmission brasses, Crown wheels, Transmissions open gears & Crystallizer transmission gears & Rotating dryer gears with the capability to resist the permanent attack of pollutants as steam vapour, water, juice and trash.
- **APPLICATION INDUSTRY:** **Sugar mills large heavy loaded in roller journal bearings & large girth gear drives**, Steel, Paper, Mining, Cement, Chemical, Marine & Offshore.
- **SMB 20K FLUIDPRESS** can be applied by high pressure spray systems but, immersion or circulation lubrication is possible too. It is suggested for heavy duty gear drives working at low speeds. This range is strongly recommended in Sugar, cement, mining, chemical and power plants.

PROPERTIES OF SMB 20K FLUIDPRESS Biodegradable Oil

Specification	Test Method	Results
Color & Appearance	Visual	Sticky, Tacky & Golden Brown
Base Oil Type	-	Semi-Synthetic
% Solid content	-	1.5 % Synthetic Esters
Density @29.5 °C	ASTM D4052	0.92
Viscosity @ 40°C	ASTM D445	20000-22000
Viscosity @ 100°C	ASTM D445	800
Flash point °C	ASTM D97	+ 240
Pour Point °C	ASTM D93	-10
Copper strip corrosion	ASTM D4048	1a
4-Ball Weld Load in kgs	ASTM D2266	>800
FZG test	ASTM D5182	>12
EMCOR Rust Protection	ASTM D6138	0,0
Water Washout	ASTM D1264	2.5%
Rust Prevention Properties	ASTM D1743	pass
Biodegradability of Oil	ASTM D7373	93.82
Operating temperature °C	-	-10°C to 160°C
NSF registration No:	-	166842

USAGE & CONSUMPTION

- Consumption savings of up to 1:10 compared to asphaltic (bitumen) oils and up to 20% to 30% compared to other graphite greases on immediate monetary savings.
- The quantity of **SMB 20K FLUIDPRESS** required to lubricate a triplet or mill, doesn't exceed an average of 3.5 ltrs to 4 ltrs a day, being also capable to lubricate the crown wheels, by means of an appropriate dripping system by adjusting the consumption levels to **SMB 20K FLUIDPRESS** best performances, depends on the type of lubrication system is used.

The indicated specific consumption quantities are based on the following assumptions:

- 1.) No major damage to the tooth flanks.
- 2.) Sufficient contact ratio.
- 3.) Through and regular inspection and maintenance of the gear drive and the spray system.
- 4.) Normal operating conditions.
- 5.) Good spray pattern on and off time of pumping grease.
- 6.) The lubricant temperature must be set to allow unimpeded pumping and spraying. This depends on the type of lubrication system used and also by adjusting the consumption levels.

Powermaxx Sugar Mill bearing oil (SMB 20K FLUIDPRESS biodegradable oil) is Certified & Approved by NSF Organization from USA.

Certificate of Registration

Powermaxx Lube India has achieved Registration status for SMB 20K FLUIDPRESS (Biodegradable Oil) to the NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds (2022) .



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Registration may be verified at
nsfwhitebook.org



Amy Jo McCardell

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NSF Nonfood Compounds
Registration Program
Company No: C0722971

SMB 20K FLUIDPRESS (Biodegradable Oil)

Category Code: H2

NSF Registration No. 166842

This product is acceptable as a lubricant where there is no possibility of food contact (H2) in and around food processing areas. Such compounds may be used as lubricants, release agents, or antirust films on equipment and machine parts in locations in which there is no possibility of the lubricant or lubricated part contacting edible products.

Registration of this product is current when the NSF Registration Mark and Category Code appear on the product label reviewed by NSF, and the Registered product name is in the NSF White Book™ (www.nsfwhitebook.org).

Listing of all registered nonfood compounds by NSF International is not an endorsement of those compounds or of any performance or efficacy claims made by the manufacturer.

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