



TECHNICAL DATA SHEET

BioSwitch™ X BIODEGRADABLE SWITCH PLATE LUBRICANT

Whitmore's BioSwitch™ X is a clean lubricant that protects switch plates from wear. Switch lubricants that rely on graphite are dirty to work with and leave permanent stains in clothing. BioSwitch™ X has the advantage of being non-staining to hands and clothing.

BioSwitch™ X is biodegradable as measured by the Modified Sturm test.

BioSwitch™ X can be applied by pouring, brushing, or spraying. No special spraying equipment is required. Any brand of pump-up weed sprayer can be used. Completely cover the switch with a thin layer of lubricant.

BENEFITS:

- REDUCES FRICTION AND WEAR – low coefficient of friction facilitates ease of switch operation. It minimizes effort and risk of injury.
- WIDE TEMPERATURE RANGE – one grade is suitable for year-round use.
- EASY TO APPLY – it can be poured, brushed, or sprayed.
- RESISTS CONTAMINANTS – does not attract dirt.
- BioResponsible™ – helps reduce the impact on the environment.

APPLICATIONS:

BioSwitch™ X is primarily for use as a lubricant for switch plates. Due to its ability to penetrate, it is effective on chains and wire ropes. Especially useful near waterways, where a biodegradable product is preferred.

ASTM #		TYPICAL CHARACTERISTICS
D-445	ISO Grade	46
	Kinematic Viscosity	
	cSt @ 40°C	51
	cSt @ 100°C	8.2
D-97	Pour Point, °F (°C)	5 (-15)
Gardner Method	Density, lb/gal @ 60°F (15.5°C)	7.63
	Specific Gravity, g/cc @ 60°F (15.5°C)	0.9160
D-92	Flash Point, °F (°C) Cleveland Open Cup (Base Oils)	>400 (204)
D-92	Flash Point, °F (°C)	>400 (204)
D-665	Rust Test Distilled Water	Pass
D-130	Copper Strip Corrosion 212°F (100°C) @ 3 hr	1A
	Color	Translucent brown

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Bulk	Nonreturnable Totes	Drums	Kegs	Pails
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THE WHITMORE MANUFACTURING COMPANY

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Performance Under Pressure Since 1893

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