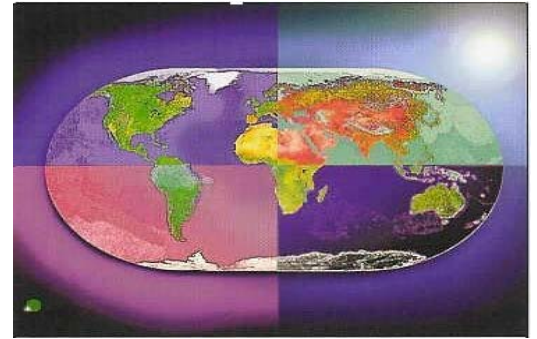


GLASSFLOW XD 004



TECHNICAL DATA SHEET

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DESCRIPTION

Glassflow XD 004, a scoop lubricant, is composed of a blend of highly refined oils which, due to their inherent chemical composition, are able to lubricate a delivery system without forming any build-up or deposits on the scoops, and without leaving any marks or residue on the gob. Glassflow XD 004 will reduce the coefficient of friction between the gob and the scoops which allow delivery of the gob to the blank in a reliable, timely fashion each and every time. *Detailed application info on reverse side.*

ADVANTAGES

REDUCE COF BETWEEN GOB/DELIVERY EQUIPMENT
NO RESIDUE [CARBON BUILD-UP] ON EQUIPMENT
NO MARKS ON GLASS
IMPROVES LOADING
PROVIDES UNIFORM GOB SPEED
REDUCED OIL CONSUMPTION
EASY TO APPLY

TYPICAL PROPERTIES

Appearance	Red, oily liquid
Odor	Bland
Density [25°C] [77°F] #s per gallon	7.25
Viscosity [25°C] [77°F] ASTM D-445	50 cSt
Flash Point COC	G.T. 160°C [320°F]

HANDLING & PRECAUTIONS

Refer to Material Safety Data Sheet for Glassflow XD 004

STORAGE LIFE

At least 12 months in a sealed container at room temperature

A P P L I C A T I O N P R O C E D U R E

Glassflow XD 004 can be applied by spraying it into the drop guide funnel or by spraying it directly onto the scoop. This can be done by using the normal Emhart standard scoop oiler spray system or by using other similar spray equipment.

The following parameters represent a typical installation:

Air pressure	2.0 to 2.5 bar
Frequency of application	Every 50 to 100 gob cuts
Spray time	0.5 seconds [+/-]

The air pressure of between 2 to 2.5 bar is recommended in order to pulverize the product into a fine mist. This is necessary to ensure that a uniform coating is applied to the scoop surface. This will help to avoid dripping, which can occur at lower pressures. Dripping the product into either of these areas may also work, though not as effectively as spraying.

Petroleum oils require application every 5th or 10th gob. Shear spray emulsions are continuously applied in the troughs. Glassflow XD 004 requires application only every 50 to 100 gobs. Using Glassflow XD 004 will allow you to reduce your oil consumption between a factor of 5 to 10 times without carbon build-up. And because Glassflow Gold is a straight petroleum oil with no emulsifiers or emulsifiable additives, it will completely and quickly separate from your waste water.

Glassflow XD 004 is transferred via the movement of the gob from its application point to the remainder of the delivery system. This makes it possible to lubricate the entire delivery system with one easy application of Glassflow XD 004 at either the scoop or the drop guide funnel.

Extensive testing of Glassflow XD 004 was performed at the Fresenius Institute in Germany and the product was found to be a safe, non-toxic, non-hazardous product regarding the environment. These results are available from Total upon request. They should be interpreted in the context of an individual plant situation and the local laws which prevail.

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