

APPLICATIONS

October 1997 volume 8

SIC CODE 206

MOLASSES

In the course of refining sugar, a point is reached when it is no longer economically feasible to attempt to remove the sugar from the "mother liquor." The thick liquid remaining is called blackstrap molasses.

Blackstrap molasses has several uses. It is mixed with other materials to produce pet and livestock feed. It can also be used as a raw material for various industrial alcohols.

The viscosity of molasses can vary from 500 SSU at 100 °F. to 5000 SSU at 100 °F. Typical differential pressure is around 60 PSI. With a specific gravity of

1.45, suction lift conditions are critical. Often flooded suction is employed to insure flow.

Other pump companies attempt to handle molasses but encounter excessive wear and quickly lose efficiency.

In some grades of molasses you may encounter abrasive characteristics. In these situations you should consider the wear-resistant XLW and MLXW Series. NP and PLW pumps are not recommended due to bearing configuration.

Customers prefer Blackmer NP and ML Series pumps.

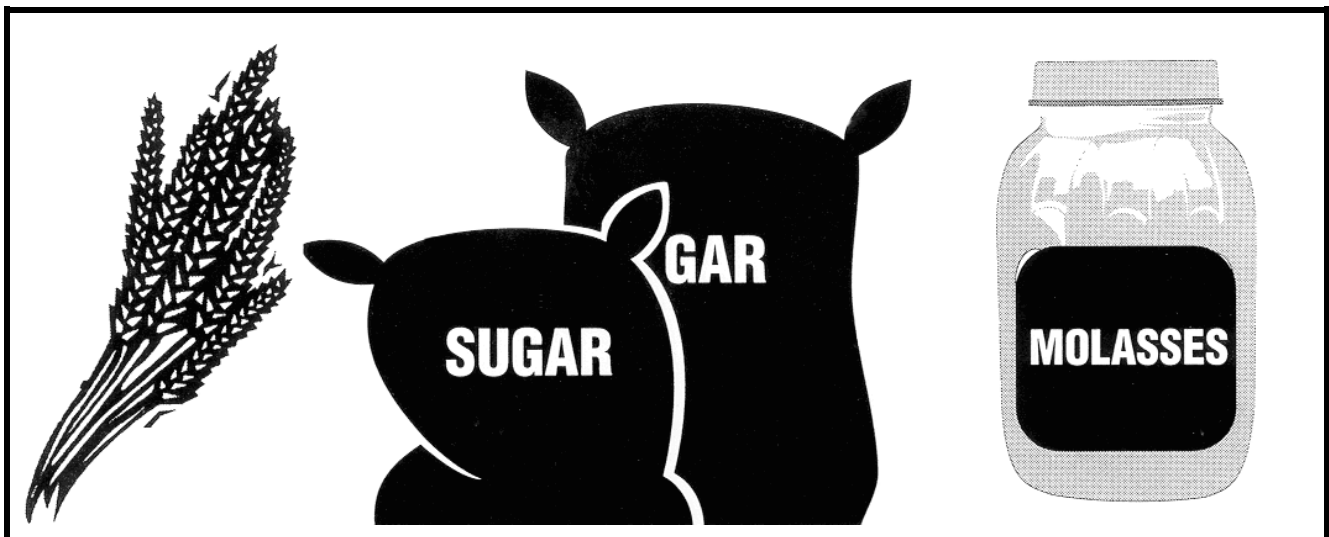
Ease of maintenance, longer life with higher maintained efficiencies, slower speeds and ability to handle high viscosities are a few reasons Blackmer is preferred.

Competition

- Gear pumps
- Lobe pumps
- Other vane pumps

Glossary

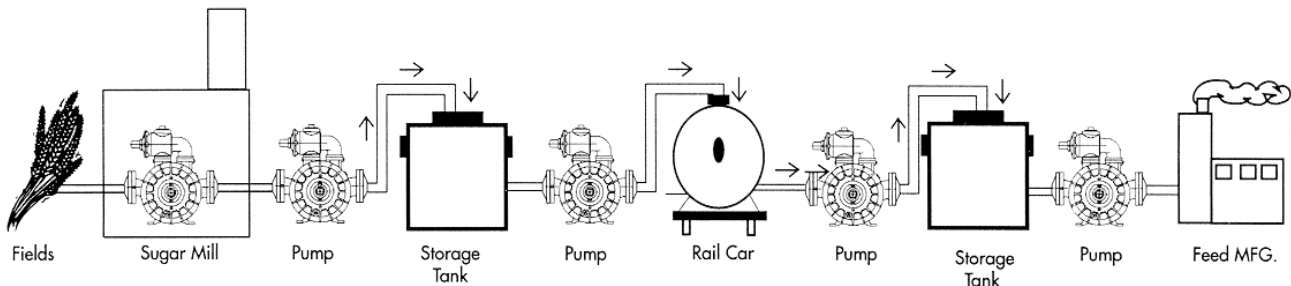
- **Mother Liquor** - A concentrated solution from which a product is obtained by evaporation and/or crystallization.



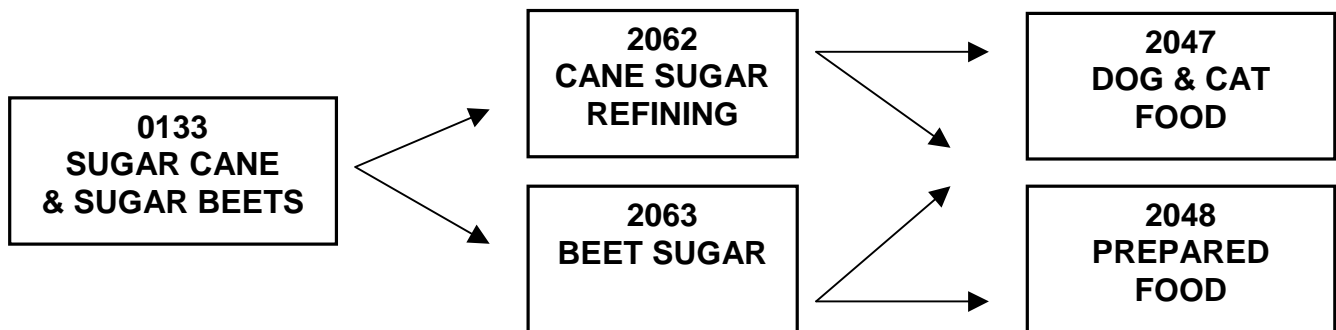
CHECKLIST

1. Be careful of suction lift requirements
 - A. Length
 - B. Elbows, tees, etc.
2. Confirm all specifications
3. Determine if Heat Jackets will be required
4. Available site utilities
5. Viscosity
6. Determine levels of abrasiveness

MOLASSES



SIC CODES



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