

Viscosity

- What is Viscosity?

Viscosity is a measure of a fluids ability to resist shear.

Higher viscosity fluids require a greater force to shear the liquid.

Pump requires more power.

- What are the problems with viscosity?

Starting difficulties (Compounded at low temperatures).

Poor priming.

Cavitation.

Fluid foaming.

Viscosity

- How does viscosity affect pump selection?

Viscous drag dictates a large port size.

Cavity style preferred over suction shoe style..

Viscous drag on gears requires more power.

Larger pump running at lower speeds.

Stronger magnets - Samarium Cobalt, Neodymium.

Viscosity performance curves.



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