



TriboGlide™

SILICONE-FREE LUBRICATION SYSTEMS

COMPARE SILICONE LUBRICANT AND TRIBOGLIDE™

BENEFITS OVER SILICONE OIL

- TriboGlide™ overcomes inconsistent device performance due to lubricant migration.
- TriboGlide™ results in lower particulates in the drug medium and hence reduced protein aggregation in biological formulations.
- TriboGlide™ has low break-free forces.
- TriboGlide™ prevents silicone contamination issues within manufacturing facilities.

KEY TECHNICAL PROPERTIES

- TriboGlide™ is compatible with glass and plastic syringe materials such as COC, COP and polypropylene.
- TriboGlide™ can be sterilized by steam, ETO, and gamma radiation.
- TriboGlide™ is compatible with in-line manufacturing speeds and is easily scalable (process time of ~1 second).

TRIBOGLIDE™ MINIMIZES PROBLEMS ASSOCIATED WITH SILICONE

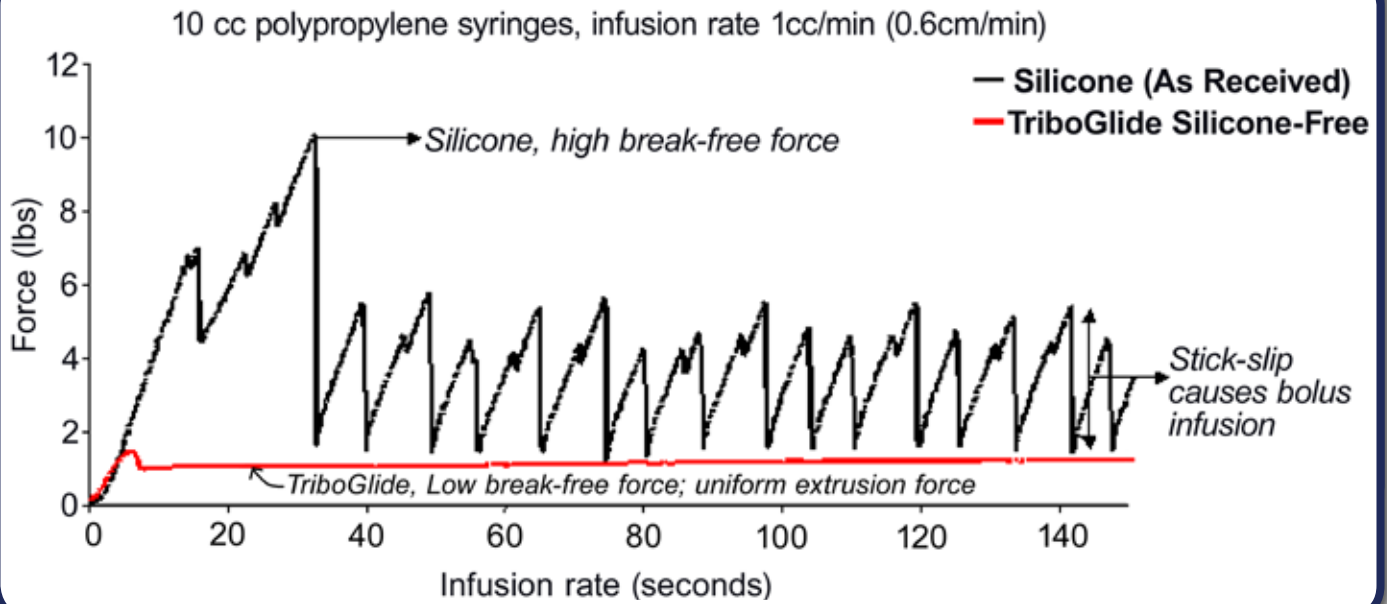
Among lubricants, Silicone oil has one of the lowest Cohesive Energy Densities (a measure of intermolecular forces that keep the molecules together). Hence, silicone oil tends to migrate and can be a source of contamination. Perfluoropolyether, the precursor for TriboGlide™ has a higher cohesive energy density, thus reducing the tendency to migrate. Additionally, the Atmospheric Plasma Immobilization crosslinks the PFPE lubricant onto the syringe barrel resulting in lower extractable in the drug. The crosslinked lubricant also results in lower break-free and extrusion forces.

**FOR MORE INFORMATION OR TO INQUIRE ABOUT USING TRIBOGLIDE™
CONTACT IVEK CORPORATION AT 800-356-4746 OR
VISIT WWW.TRIBOGLIDE.COM**

TRIBOGLIDE™ IS A REGISTERED TRADEMARK OF TRIBOFILM RESEARCH, INC.

COMPARE SILICONE LUBRICANT AND TRIBOGLIDE™

INFUSION FORCE COMPARISON AT SYRINGE PUMP SPEEDS



MEAN PARTICULATE COUNT PER CC OF SALINE

