NEW Polyblend® Polymer Activation Systems MAGNUM mix chamber increases polymer activation efficiency by up to 30%

Easy to install retrofit units available for legacy M-Series Polyblend® units

UGSI Solutions, Inc. is pleased to introduce and release the new Polyblend® MAGNUM mix chamber* for immediate sale. Specifically, the MAGNUM mix chambers are available for sale as a retrofit to existing M-Series emulsion polymer activation units (models M240-M2400) or as a completely new M-Series unit.

The MAGNUM mix chamber represents a purposeful evolution of the Polyblend® polymer activation family of systems by improving the existing industry standard setting designs. Real-world testing has demonstrated that the new Magnum mix chamber design achieves even higher viscosity solutions than legacy mix chamber configurations by enhancing the proven two-zone mixing energy profile with the 14,000 sec⁻¹ G-Value that is currently available on all M-Series units. The carefully sized volume of the MAGNUM low energy mix zone increases polymer residence time and accelerates the “hydration/relaxation” of the activated polymer chains resulting in increased viscosity and ultimate performance.

Key MAGNUM Product Features:

1. **High Energy/Low Energy Mixing Profile**
   - Ratio of low-to-high energy mix zone volume was increased to increase residence time (T)
   - High-energy mixing at the moment-of-initial-wetting (MOIW) to achieve maximum hydration (high viscosity) of the polymer particle in the shortest time

2. **Direct coupled 3,450 RPM motor**
   - Eliminates the need for shaft alignment

3. **Quick Disconnect on the neat polymer injection check-valve (now available on all models as a separate kit)**
   - Eliminates the need for tools to access the check-valve for periodic cleaning
The new MAGNUM mix chamber was field-tested adjacent to an existing Polyblend® polymer activation system M-Series unit and was able to exceed the solution viscosity by 10% and decrease polymer consumption by more than 30%.

Field Retrofits

MAGNUM mix chambers will be available for field retrofits for existing M240-M2400 M-Series units. With over 5,000 Polyblend® M-Series units in the field, the MAGNUM retrofit kit represents an opportunity to deliver a step-change in polymer efficiency.

Availability

The MAGNUM mix chamber retrofit kits for existing units and NEW Polyblend® M-Series units are available for immediate sale. Please contact your local Polyblend® polymer activation systems representative or contact us directly at:

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