

ALCHEMY APG

PRODUCT DESCRIPTION

Alchemy APG (Aqueous Pipeline Gel) is a water-based viscous Gel with excellent debris pick up capabilities. APG can be used as a Base Gel or a Cross-linked Gel and a range of viscosities is available. The crosslinked gel can be easily broken down using Alchemy **APG Breaker C**.

APPLICATIONS

APG Base Gel performs well as a debris lift and fluid displacement Gel, especially in small diameter lines.

Crosslinked APG is excellent for debris removal, as it is able to suspend debris up to 50% of its weight. Crosslinked Gels can be used to segregate fluids in a pipeline allowing for batch dosage of treatment chemicals to optimising performance and increase contact times e.g. with a wax dissolver.

APG Gels are also extremely effective when used in a pig train, suspending debris removed during the cleaning process, slicking the line, and preventing debris build-up in front of a traditional or Gel pig.

EASY TO USE & DEPLOY

The Gel can be easily injected to the application site via port or hose and performs best at lower velocities (< 1.5 m/s). The gel will form a viscous pill inside the pipeline and adjust to any pipeline ID changes, filling the full diameter of the pipe.

After application, the gel will degrade to a low-viscosity liquid in the production stream, or can be rapidly separated back to water and a small amount of polymer by the addition of our **APG Breaker C** product.

ADDITIONAL FEATURES

APG Gels can be supplied as pre-made Gels in IBCs or ISO tanks, or as ready-to-mix Kits for blending on site, greatly reducing deployment time and shipping costs.



TYPICAL PROPERTIES

| | Alchemy APG |
|----------------------------|---|
| Appearance | Pale straw coloured opaque viscous liquid |
| Density | approx. 1.0 - 1.02 @ 20°C |
| Shelf Life at Ambient Temp | 3 months |
| Biodegradable | Yes |
| pH | Base: approx. 7 Crosslinked: approx. 9 |

INNOVATIVE **CHEMISTRY**

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CASE HISTORIES

- Crosslinked APG was used by to recover parts of a gauging tool from a 120 km pipeline in Devil's Creek, NWS, Western Australia. The tool fell apart in the pipeline during gauging operations approx. 30km along the line. The APG Gel was pushed the full 120 Km and every tool component was recovered (and was subsequently reassembled for reuse).
- APG Gel was used in conjunction with wax dissolver at the first phase of a progressive pigging campaign to clean Guillemot West pipeline system, down from and back up through a flexible riser to the Triton FPSO. Seven tones of debris were recovered. A very successful project, delivered on schedule and under budget, with excellent outcome advised by client.
- APG Base and Crosslinked Gel of various viscosity have been successfully used in 2021 for decommissioning the Balmoral and Stirling Fields for a North Sea Operator.
- APG 3 Gel performed well during decommissioning three 8" pipelines on the Northern Producer FPSO. The gel was pumped down via the 3" Gas Lift, through 1" choke valve and 2" XOY, then a subsea tree, entered the production line and returned via the 7" Production Riser to the platform where it was broken with APG Breaker C on arrival. Flushing performance was excellent and the required cleanliness was obtained head of schedule.

ABOUT US

Alchemy was founded in 2005 to provide Gels and Sealing materials to the energy industry. Our main product lines consist of Aqueous Gels, Gel Pigs, Glycol based Gels and Pigs and our range of sealant products.

We provide unique solutions to our Clients problems including consultancy and bespoke chemicals, usually on a tight time scale and delivery schedule.

We operate from our purpose build facility on the outskirts of Inverurie in the UK, ideally placed to service on and off-shore markets both in the North Sea and world wide.

Alchemy is ISO registered, and all products we supply for use in the North Sea associated with drilling and production are environmentally friendly and are registered with CEFAS.

CONTACT US

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