

## ALCHEMY GPG

### PRODUCT DESCRIPTION

**Alchemy GPG** (Glycol Pipeline Gel) is a MEG-based viscous fluid with excellent pigging capabilities. Due to the major component being MEG the Gel is ideally suited for use in gas systems, where hydrates may occur if a water based Gel were to be used. A higher temperature version of the Gel, **Alchemy GPG HT**, designed for blending in high ambient temperatures and use in high temperature systems, is also available.

### APPLICATIONS

Alchemy GPG is widely used to prevent sea water ingress in stainless steel and duplex pipelines during pipe laying and hydro-testing.

GPG also performs well as a pigging Gel, for the removal of debris or sand, or creating a barrier for pipeline intervention where there is no pressure differential. GPG can also be used as part of a mechanical pigging campaign in front of a bidi pig to lubricate the line in front of the pig, improve debris lift and hence increase pigging performance.

### EASY TO USE & DEPLOY

GPG can be supplied in IBCs or ISO tanks, or in Kit form to be made up at the project site. The Gel is injected to the application site via port or hose and will form a viscous pill inside the pipeline. It will adjust to any pipeline ID changes filling the full diameter of the pipe.

### ADDITIONAL FEATURES

GPG and GPG HT can be supplied as ready to mix Kits, and blended with locally sourced MEG in an IBC or tank onsite. The kit size can be adjusted to clients requirements to facilitate the blending process and allows for rapid deployment and reduced shipping costs.



### TYPICAL PROPERTIES

|                            | <b>Alchemy GPG</b>   |
|----------------------------|--|
| Appearance                 | Pale straw coloured opaque viscous liquid                        |
| Density @ 20°C             | <b>GPG:</b> approx. 1.07-1.2<br><b>GPG HT:</b> approx. 1.09-1.13 |
| Shelf Life at Ambient Temp | 6 months   |
| pH                         | approx. 7  |

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### CASE HISTORIES

- GPG was used on the Howe field to fill in an entire sub-sea tree to prevent sea water ingress and provide a hydrate inhibited pill for bringing on new connections to pipeline and wells.
- GPG and Gel Pigs were supplied to the Everest/Lomond Area where a pipeline breach required pigging of lines through 5 different diameters while preventing hydrates in gas system.
- Various North Sea and Australian Operators routinely use our GPG for preventing the ingress of sea water into spools in various applications across a range of diameters.
- GPG HT was used in Angola to prevent sea water ingress to spools prior to load out and installation in Block 17 A. Alchemy was also awarded the same work scope for Block 17B.
- GPG HT was supplied as ready-to-mix kits to a Vietnamese Operator in 2020 for filling 2 x 40m 26" spools prior to installation to prevent sea water ingress into gas system. The kit size was adjusted to the client's tank and equipment availability on site and MEG was sourced in country. The spools were installed successfully.
- GPG HT is regularly used by our client in Azerbaijan to prevent sea water ingress into new subsea spools.

### 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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