



**Alchemy**<sup>®</sup>  
Oilfield Services Limited

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## Alchemy<sup>®</sup> APG Gelling Agent Product Bulletin

### Description

Alchemy<sup>®</sup> APG Gel System is designed for use as a suspension gel system, as a temporary well isolation system or for pipeline segregation of fluids, debris removal or oil displacement. The product is designed to be used at site with a Base Gel fluid, which has a density of approximately 1.00, and is crosslinked with Alchemy<sup>®</sup> APG Gelling Agent. The product is formulated to provide a crosslinked gel which will suspend debris and assist in well or pipeline applications. The Base product is supplied as a liquid phase to the application site where it is crosslinked, if required, by application of Alchemy<sup>®</sup> APG Gelling Agent in a ratio of 100 parts Base Gel to 2 to 4 parts crosslinker.

Alchemy<sup>®</sup> APG Gelling Agent is of low viscosity, generally less than 10cP.

### Applications

The resulting crosslinked gel can be used to provide a temporary isolation within a well, hold a fluid pill in a well or in a pipeline or be used as a pipeline debris removal agent segregation system or oil displacement medium.

### Stability

The product as formulated is stable for up to 1 year from date of manufacture in typical North Sea ambient conditions. If the product is subjected to low temperatures (typically less than 5°C) some crystallisation may occur which can be readily dissolved by mild heating if required.

### Additional Information

The crosslinked gel is also fully biodegradable and will with time and temperature lose viscosity and sealing capability allowing the system to return to original conditions. Chemical breakers may be deployed to release the crosslink and allow the fluids to degrade to low viscosity product for removal from the application system.

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### Typical Properties

Appearance	Clear colourless very low viscosity liquid
Density	Approximately 1.00
Viscosity	Less than 10 cps
Shelf Life	1 year (crystallisation may occur at low temperatures)
Crosslinked gel	Crosslink APG Base Gels using 2-4%

### Supply

Alchemy<sup>®</sup> APG Gelling Agent can be supplied in 25, 200 or 1000 litre containers and bulk offshore tanks as may be required.

The above properties are typical of the Alchemy<sup>®</sup> APG Range but do not imply any particular specification for the product.