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Alchemy APG Gel Product Bulletin

Alchemy APG Base

Alchemy APG Base (Aqueous Pipeline Gel) is a viscous fluid with excellent debris pickup capabilities. The function of this fluid is to provide a viscous liquid which will lift and retain debris while being pigged out of a pipeline system.

It has been used to remove sand without the need to use pigs in a pipeline and where the use of a technical pig might produce a debris wave which could lead to fouling in front of the pig, which could then stick and plug the pipeline.

Alchemy APG base has also been used to free stuck metal pigs in pipelines by deploying from the front end and lifting the pig off its stuck location and then slicking the line as it moves forward again and out of the pipeline.

Alchemy APG Crosslinked Gel

Alchemy APG Crosslinked Gel is formed from Alchemy APG Base being mixed with Alchemy APG Gelling Agent to form a fully crosslinked gel system. The fully crosslinked gel system is excellent for removal of debris as well as creating barriers within pipelines to hold slugs of water or chemical products.

Alchemy APG crosslinked Gel is an excellent oil displacement medium.

Alchemy APG crosslinked Gel can also be used to create a barrier to prevent sea water ingress (chloride ion contamination) in stainless steel and duplex pipelines when laid in sea water environments.

When used as a debris pickup gel this material can lift and suspend debris, with a density of over 2.0, and remove it from the pipeline.

In a further application it has been used to segregate fluids in a pipeline to give concentrated performance, for example wax inhibitor for opening a reduced diameter line due to wax deposition.

For disposal after use, the gel is placed in a production stream where it will degrade to a liquid with a very low viscosity or, by the addition of a chemical breaker, the gel is destroyed.

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Alchemy[®]
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Typical Properties

Appearance	Pale straw coloured opaque viscous liquid
Specific Gravity	Approximately 1.00
pH	7 approx. (uncrosslinked base), 9 approx. when crosslinked

Stability

APG Base Gels are stable for up to 12 weeks from date of manufacture in typical North Sea ambient conditions.

Packaging

APG Base Gel is normally supplied ready mixed in 1000L IBCs or ISO offshore tanks.

APG Gelling Agent is normally supplied in 25, 200 or 1000 litre tanks or as may be required in ISO tanks.

APG can be supplied in a ready-to-mix Kit[®] form, comprising APG Polymer, APG Solvent, APG Stabiliser M and APG Gelling Agent.

Additional Information

All components of the APG system are approved by CEFAS for use in UK, Norway and Netherlands.