

Gel Isolation

EFFECTIVE TEMPORARY BARRIER SYSTEM FOR PIPELINES

OVERVIEW

Isolation is important for corrosion prevention in pipelines or pipe sections during tie-in or disconnection of pipelines. The use of gels either standalone or in combination with mechanical pigs allows for effective pipeline isolation.

Halliburton gel systems can be designed with a high static gel strength and high fluid viscosity to create a temporary barrier to prevent seawater ingress for sensitive metallurgy pipelines to prevent seawater corrosion.

These gels can also be based on hygroscopic fluids such as glycols or methanols to minimize water ingress into dry pipeline systems, providing hydrate inhibition characteristics for a variety of pre-commissioning and maintenance operations.

The life of the gel is strongly dependent on temperature and can be custom-designed. Laboratory results show that the gel lasts for at least 1 year at 4°C in pipeline.

APPLICATIONS

- Temporary barrier in pipelines or pipe sections
- Prevention of seawater ingress during tie-in or disconnection
- Protection of sensitive metallurgies for seawater corrosion

FEATURES

- High static strength
- Low freezing point when prepared in glycol
- Easy to mix with most conventional equipment
- Can be mixed with a wide variety of base fluids

BENEFITS

- Non-corrosive solution
- Can be applied in a wide variety of metallurgies
- Components are environmentally approved for use in the Norwegian sector of the North Sea

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