FLUIDS &
SOLUTIONS

Organic phase for Inverse Emulsion Polymerisation

The Hydroseal Range

TOTAL

Hydroseal – for the inverse emulsion polymerisation of Polyacrylamides

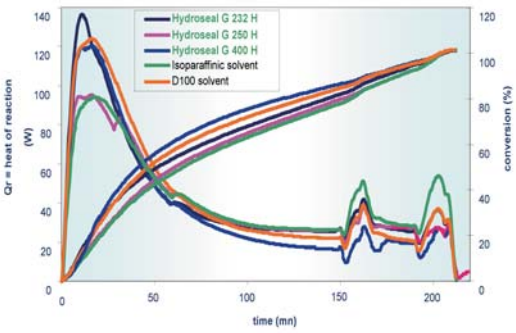
Total's extremely pure Hydroseal range is ideally suited to the production of polyacrylamides in inverse emulsion polymerisation processes. Hydroseal products not only deliver the required technical performance, but also meet the most stringent environmental requirements. All grades are non VOC and may be used safely in indirect contact with foodstuff.

Application & Technology

Polyacrylamides, which are commercially available as powders, solutions or emulsions are extremely versatile polymers that can be used in a large number of applications including water treatment, paper manufacturing or as thickening agents for aqueous systems such as textile printing pastes.

When producing polyacrylamides in inverse emulsion polymerisation, the hydrocarbon used as an organic phase needs to be of an outstanding purity and completely inert to avoid any interference with the reaction. In addition, the physical properties displayed by the hydrocarbon are important to ensuring a stable end product. Over and above these technical requirements, the hydrocarbon fluid must also respond to increasingly rigorous environmental and safety standards.

Hydroseal have been developed to meet all of the diverse technical and environmental criteria required from hydrocarbon fluids when producing polyacrylamides in inverse emulsion polymerisation.



Cationic water treatment polymer

The characteristics you need...

Total has developed a range of products designed to deliver convincing technical performance as well as an environmental, health and safety profile exceeding the requirements made by industry today.

The entire Hydroseal range has been extensively tested for the polymerisation process, and has proven to be at least as efficient as traditionally used solvents. Contrary to many other fluids the complete absence of aromatics makes Hydroseal fluids virtually odourless.

All grades have a high flash point (>100°C) and a low vapour pressure, making them non-VOC. Hydroseal products may also be used safely in indirect contact with foodstuff.

A versatile range

Polyacrylamides are present in numerous applications including water treatment, paper production and textile printing, each of which require specific polymer types. The versatility of the Hydroseal range allows them to be used for the production of each of the different polymers, with anionic, cationic or non-ionic charges, with different molecular weights as well as in both water-soluble and water-swellable form.

The Hydroseal range offers the formulator the choice between five different products that are distinguished by their boiling range, viscosity and flash point. All products are equally pure and chemically inert, allowing the most suitable Hydroseal product to be chosen for each production process.

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