

Fluorescein Dye Liquid

Hydrotest Tracer Dye

General Description

Fluorescein Dye Liquid is a standard tracer dye used in hydrotesting operations. Chemically, it is the sodium salt of hydroxy-o-carboxy phenyl fluorine. As a liquid concentrate it has a dark brown-orange colour. This product can be ordered under ChampionX's rebranded name HSUR40230A.

Features

- Fluorescein Dye Liquid meets current North Sea regulatory requirements and is rated in the Gold band under CHARM for completion workover projects.
- There are no known material incompatibilities.
- Fluorescein Dye Liquid can be used in conjunction with other standard hydrotest chemicals.
- Active fluorescence is at visible wavelengths so there is no absolute requirement for specialist detection equipment.

Safety and Environmental

After skin contact, remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

After eye contact, make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

Additional information concerning first aid is given in the Material Safety Data Sheet, which is available upon request.

Principal Applications

Fluorescein Dye Liquid is an excellent tracer dye for use in leak detection. It exhibits an intense green colour upon dilution (it can also appear orange depending on the angle of viewing).

The dye fluoresces in the visible light spectrum and so is readily detectable by the human eye - provided a suitable 'illumination' source is used.

If a specific illumination source is needed, the required adsorption/excitation wavelength range either is a broad band around a maximum of ~490 nm or standard UV 'blacklight' illumination. Similarly 'wavelength specific' detection equipment should be ideally be tuned to a band around ~520 nm to encompass the emission maximum. The exact maxima can vary slightly depending on pH and media.

Fluorescein Dye Liquid is most commonly used for hydrotest and cementing operations. This product is generally regarded as the full strength industry standard.

Material Compatibility

For material compatibility, please refer to the ChampionX materials suitability guidelines or contact your local representative to obtain this information.

Feeding and Dosage

HSUR40230A is typically dosed in the range of 25-40 ppm for hydrotest applications and 1000-4000 ppm for cementing applications.

Shipping, Handling, and Storage

Keep away from heat, sparks and open flame. Avoid spillage, skin and eye contact. Ventilate well, avoid breathing vapours.

Store in tightly closed containers in a dry and cool area. Ground container and transfer equipment to eliminate static electric sparks. Use containers made of stainless steel for storage and transport.

Refer to the Material Safety Data Sheet for additional information concerning firefighting measures, transport information and regulations.

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Contact Information

If you need assistance or information, please call your local ChampionX representative or visit www.championx.com.

Disclaimer

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