

RX-9022 FLUORESCENT PIPEDYE



Description

RX-9022 Pipedye is a water-based fluorescent tracer dye that meets the minimum biodegradation requirements, removing the need for a substitution warning unlike the standard fluorescein leak tracing dyes.

RX-9022 Fluorescent Pipedye provides a fluorescent red / pink colour which is visible to the naked eye and can be detected subsea by cameras, fluorimeters calibrated to the appropriate excitation / detection wavelength.

RX-9022 is lower in toxicity towards operatives and marine organisms than other leak testing dyes, such as Rhodamine and is non-hazardous for supply and transportation.

RX-9022 Fluorescent Pipedye is compatible with Roemex biocides, corrosion inhibitors and oxygen scavengers.

Application

RX-9022 Fluorescent Pipedye is a dark purple liquid which produces a red / pink solution once diluted in water. The solution then produces an orange fluorescence when excited with a blue or green light. For subsea detection of RX-9022, an optimum excitation wavelength of between 532 and 549nm (green) should be used with a detection wavelength at 583 nm (yellow/orange).

Normal dose for application is approximately 100ppm. Roemex cannot stipulate an exact dose for RX-9022. This is due to the strength of colour required being determined by a number of scenarios e.g. style and sensitivity of detection apparatus, sea bed depth and tidal currents. Generally, as a rule of thumb, the dye must not be dosed at below 100ppm for visual detection.

Detection of RX-9022 has been proven using the SLD, Fluorotrak, Neptune Oceanographic, EV Offshore and Chelsea Technologies Leak Detection Systems.

Properties

Specific Gravity	1.02 to 1.06
Flash Point	>61.5 deg C (Non Flammable)
Solubility	Soluble in water, glycol, completion brines / drilling fluids.
pH	3.3 – 3.4
Appearance	Dark Purple Liquid
Hazard Class	Non Hazardous
CHARM / OCNS	GOLD (no substitution warning)

Handling

No special procedures need to be observed. Normal precautions should be taken and protective clothing, goggles and PVC/rubber gloves should be worn.

Packaging

Available in 5 litre kegs, 25 litre kegs or 208 litre drums.