



Division of Kingscote Chemicals ®

## WATER TRACING PRODUCTS FLUORESCENT INDUSTRIAL RED II

### TECHNICAL DATA BULLETIN

Bright Dyes Industrial Red Dye products are specially formulated versions of Rhodamine B, one of the traditional fluorescent water tracing and leak detection materials. It may be detected visually, by ultraviolet light and by appropriate fluorometric equipment. Visually the dye appears as a bright dark red to magenta, depending on its concentration and under ultraviolet light as a bright orange.

Compared to Bright Dyes FLT Yellow/Green or FWT Red Dye products, Industrial Red is significantly less resistant to absorption of inorganic / organic suspended matter. This limits its suitability in many applications, particularly where fluorometric detection is needed. This dye has greater resistance to sunlight than FLT Yellow/Green and is equivalent to FWT Red.

Industrial Red Dye products should not be used: 1) In drinking water systems, near drinking water intakes or where downstream impingement on a drinking water system might occur, or 2) Where any aquatic ecosystem might be chronically exposed to detectable amounts of the dye. The use and suitability of these products should be evaluated by a qualified hydrologist or other industry professional.

**General Use:**

- \* Closed loop systems / applications
- \* Flow Mapping, Tracing and Time Studies
- \* Pollution Studies (Discharge- Rate of Flow-Mixing, Diffusion and Dispersion – Circulation)

General Properties	Dye Tablets	Dye Liquids	Dye Powders
Detectability of active ingredient 1	Visual <100 ppb	Visual <100 ppb	Visual <100 ppb
Maximum absorbance wavelength 2	550/588 nm	550/588 nm	550/588 nm
Appearance	Dark maroon 1.6cm diameter	Deep, dark maroon aqueous solution	Dark red fine powder
Weight	1.35 gms + 0.05	n/a	n/a
Dissolution Time 3	50% < 3 minutes 95% < 6 minutes	Immediately	50% < 3 minutes 95% < 6 minutes
Specific Gravity	n/a	1.05 + 0.05 @ 25; C	n/a
Viscosity 4	n/a	1.8 cps	n/a
pH	n/a	1.5 + 0.5 @ 25; C	n/a

Coverage of Products	One Tablet	One Pint Liquid	One Pound Powder
Light Visual (100 ppb)	604 gallons	125,000 gallons	600,000 gallons
Strong Visual (1 ppm)	60 gallons	12,500 gallons	60,000 gallons

Caution: These products may cause irritation and/or staining if allowed to come in contact with the skin. The use of gloves and goggles is recommended when handling this product, as with any other dye or chemical.

To our best knowledge the information and recommendations contained herein are accurate and reliable. However, this information and our recommendations are furnished without warranty, representation, inducement, or license of any kind, including, but not limited to the implied warranties and fitness for a particular use or purpose. Customers are encouraged to conduct their own tests and to read the material safety data sheet carefully before using. Revised 10/01/2018

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