



Flurotracer

Features and Benefits:

- **Cost Saving** - Rapidly locates faulty bags and leaking seals, Minimising downtime due to precise location.
- **Environmentally Effective** - User confidence that their filtration system is working efficiently and retains particulate matter as designed.
- **Highly Accurate** - Accurate 'pin-point' method of detecting the minutest leaks.
- **Simple to Use** - No special training required. The high response of Flurotracer under UV makes the minutest leak easily detectable.

The Sterling Colour Flurotracer is a solid solution of fluorescent dyes in a specially formulated non-softening resin lattice.

Since the 1960s, Sterling Colour's use of highly responsive fluorescent technology has enabled the speedy location of leaks in air filtration systems such as bag-houses and associated ducting. The Sterling Colour Flurotracer is suitable for use in steel mills, metal smelters, cement plants, asphalt plants, and many other heavy industries.

The Sterling Colour Flurotracer is tried, tested and accepted as being the most efficient bag-house leak detector on the market. The product is more commonly referred to as the Sterling Colour 810 Series.

Frequency of use

The Sterling Colour Flurotracer should be used immediately when a leak is suspected and as recommended. Preventative maintenance is better than problem solving, so check monthly using Flurotracer to confirm acceptable operating efficiency.

Method of Application

1. Locate an inlet port on the contaminated side of the bag-house (on the low pressure side of the fan) just before the bag-house inlet. Ideally the port should be at least 10 cm in diameter.
2. Turn off the bag cleaning mechanism to leave the dust cake on the bag, giving a high pressure differential across the clean and dirty sides of the bag. This will encourage the Flurotracer to follow the easiest path. Start the fan and introduce ½ to 1 kilo of pigment per 100 m² (1,000 ft²) to filter cloth. In positive pressure, Flurotracer should be injected before the fan. Allow the fan to run for five additional minutes. Do not operate the mechanism during or after the injection of the Flurotracer pigment.
3. Shut off the fan and inspect, using a long wave UV light. In the case of pulse type units inspection requires opening the top door and shining the UV light over the clean air plenum. For shaker or reverse air units inspection takes place from the inside starting with the lower level and concentrating the UV light around the thimble sheet.

Leaks allow very fine Flurotracer particles to pass through the bag to the clean side of the collector. The particles are activated by the by the UV light source emitting a contrasting colour to the contamination, quickly pin-pointing the defective bags. As the concentration of Flurotracer builds up around the faulty bags, it emits an intense orange glow.

'Bleed through' of pigment, which sometimes occurs in woven material bags or bags that have been in service a long time, may suggest at first sight a ruptured bag. However differentiation between the two Flurotracer distributions is quite straightforward. The Flurotracer pigment has a very small particle size and can be used to locate leaky weld seams or faulty bag seals.

For best results, do not expose Flurotracer to temperatures higher than 190°C over long periods.

Best results are obtained using a 100-watt ultraviolet light source, or 'black light', operating between 365 and 400 nm. The product will emit an intense orange glow. As with the Sterling Colour 810 Series, other colours are available on request.

Other Information

Product Specification			
Property	Unit	Value	Test method
Colour (visual)		As standard	AC
Grind (Hegman)	microns	< 10 microns	AB
Softening Point	°C	Non - melting	AM
Typical Properties			
Decomposition	°C	190	
Particle size	microns	~ 4 (average)	
Specific Gravity		~1.38 @ 20°C	

Copies of test methods available on request

The Sterling Colour Flurotracer is generally considered non-hazardous when used as advised but reference should be made to the product safety data sheet. Individual Safety Data Sheets are prepared in accordance with Regulation (EC) No. 1907/2006 (REACH) and are available for each shade. Please request these from your distributor or our customer services' department.

You can also keep regularly updated on any Health, Safety and other regulatory information about our products by contacting EHS@danecolor.com.

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The Sterling Colour guarantee is limited to the consistent quality of its products. Technical information, advice, verbal and written suggestions and test results are offered for guidance without responsibility. No warranty of merchantability for a particular purpose is made.

Users are responsible for testing our products and suggestions to ensure that they are suitable for the intended purpose and application prior to use.

