FLUORESCENT YELLOW 131SC

Concentrated Solvent Soluble Dye

Description

Fluorescent Yellow 131SC is a concentrated solvent soluble dye containing Solvent Red 175 in a high flash hydrotreated naphthenic solvent system. The product is a dark colored liquid and has been found to be completely miscible in most petroleum or organic based products. The solvent is used in the product as a viscosity depressant and standardizing agent. The product is available in 18 kilogram pails, and 173 kilogram drums.

Fluorescent Yellow 131 SC can be used for detecting oil leaks in gasoline and diesel engines as well as hydraulic oil systems. This application requires addition of the fluorescent dye to the engine oil and subsequent examination of the engine using a high intensity black light. Leaks are easily detected with this system by the intense white-yellow fluorescence of the dye. This fluorescence is readily distinguished from the natural blue fluorescence found in some oils.

Recommended Dosage

The following recommendations are provided as a starting point for typical leak detection applications. Actual dosage will depend on the specific needs of the customer.

Hydraulic & Transmission Fluids	500 to 2000 ppm
Car Engine Oils	500 ppm
Diesel Engine Oils	700 to 2000 ppm

Typical Physical Properties

Fluorescent Yellow 131SC	Result
Density	7.6
Excitation Maximum (Hexane solvent)	494 ± 5 nm
Emission Maximum (Hexane solvent)	535 ± 5 nm
Flash Point, ASTM D-3278	>85°C, 185°F
Solubility in Petroleum Products	Completely Miscible

These properties are typical but do not constitute specifications.

Product Specifications

Fluorescent Yellow 131SC	Result
Fluorescent Intensity (vs. Standard)	100% ± 5 %
Insolubles (Filter Method)	0.2% Maximum
Water Content (Karl Fisher Method)	0.5% Maximum

Application Recommendations

Introduction of the dye into the oil can be carried out in one of two ways. Engine/Hydraulic Oil and the dye may be premixed and added to the system prior to the testing cycle or dye may be added to the system after the oil fill by adding the dye directly into the oil sump. Leakage is monitored during and after the "hotcell" test or after the dynometer test by examining the engine or hydraulic systems with a high intensity black light (100-125 W emitting at 365 nm). Leakage is readily detected by the presence of a white-yellow fluorescence caused by the presence of the dye.

Safe Handling Information

Before using this product, consult the Safety Data Sheet (SDS) for details on product hazards, first aid measures, recommended handling precautions, recommended personal protection equipment and product storage.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

Contact:
North America: +1 (800) 447-4369
Latin America: +55 (115) 188-9000
Europe: +8 (003) 694-6367
Toll: +3 (111) 567-2626
Asia-Pacific: +8 (007) 776-7776
Toll: +6 (037) 965-5392
http://www.dow.com