

FLUORESCENT LEAK DETECTION PRODUCTS AND SPECIALTY TOOLS





ISO 9001:2008 CERTIFIED COMPANY

🕊 Kawasaki

RAYMOND



The Most Effective Method of Finding Fluid Leaks in an Industrial Environment

Works effectively in <u>any</u> enclosed circulatory system where fluids are used for lubrication, hydraulics, cooling control or hydrostatic pressure testing. Fluorescent dyes also can reveal leaks in static systems that can be pressurized or agitated.

CONTENTS:

INDUSTRIAL PRODUCTS Introduction to Dyes Dyes for Circulating Fluids	4 5
Cordless LED Leak Detection Lamps: UV LED Lamps Violet Light LED Lamps	6-7 8-9
Complete LED Leak Detection Kits UV LED Lamp Leak Detection Kits	10 11
Oil Sample Test Kits Specialty Tools	12 13
INDUSTRIAL SAFETY PRODUCTS FluidSafe [™] Additive	14-16
Leak Detection Products & Kits M-GLO™ Additive & Leak Detection Kit	16 17
	. •
M-GLO [™] Additive & Leak Detection Kit	17

Spectroline Advantage

- \checkmark Fast, easy and accurate
- ✓ Finds <u>all</u> leaks the <u>first</u> time, <u>every</u> time
- ✓ Economical
- ✓ Reduces labor costs
- ✓ Perfect for preventive maintenance
- ✓ Environmentally friendly
- \checkmark Remains safely in system
- ✓ Improves working conditions
- $\checkmark\,$ Decreases equipment downtime
- $\checkmark\,$ Increases efficiency of machinery operation

FLUORESCENT LEAK DETECTION: HOW IT WORKS



TEP 1

Add a small amount of dye to system and let it circulate... (The dye/fluid mixture escapes with

the host fluid wherever there is a leak)

STEP 2

Scan system with a Spectroline[®] leak detection lamp and see <u>all</u> leaks glow brilliantly!



2 | SPECTROLINE[®] | The Most Trusted Name in Fluorescent Leak Detection









TURBINES



VACUUM SYSTEMS



LIQUID HOLDING TANKS



COOLING Towers



COMPRESSED AIR LINES



NATURAL GAS Lines



PNEUMATIC SYSTEMS

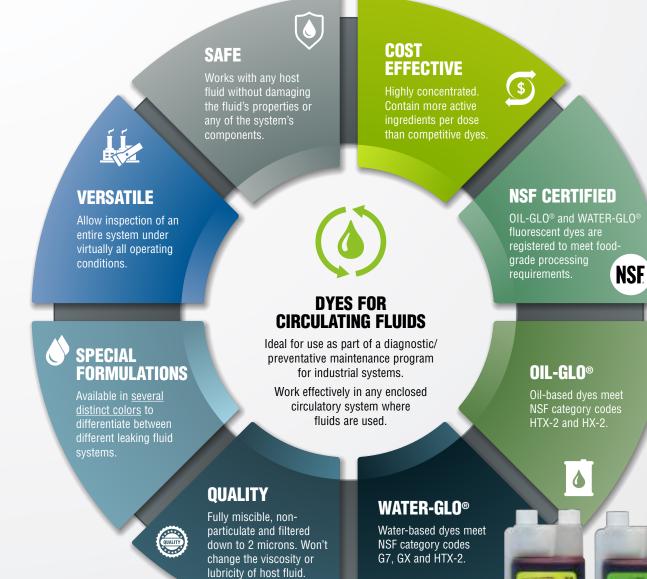


INDUSTRIA PRODUCTS

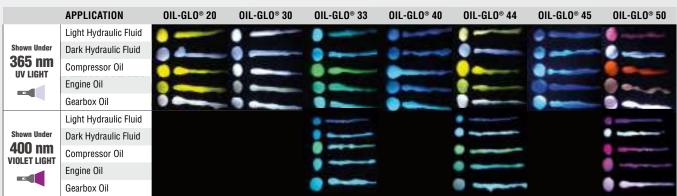
Leak detection technology that will save you money on costly leaks.

PAGES 3-13

INTRODUCTION TO DYES



OIL-GLO® SERIES FLUORESCENT DYE COLOR CHART:



Refer to the chart on right page for detailed information about our most popular dyes.

4 | SPECTROLINE[®] | The Most Trusted Name in Fluorescent Leak Detection





Note: All OIL-GLO® and WATER-GLO® fluorescent dyes are NSF Certified and registered to meet food-grade processing requirements. OIL-GLO® oil-based dyes meet category codes HTX-2 and HX-2. WATER-GLO® water-based dyes meet category codes G7, GX and HTX-2.

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	UV Lamp	Violet Light	UV-Absorbing	Fluorescence-
	•	Lamp		Enhancing

PRODUCT NO.	DYE Color	APPLICATION	SUGGESTED APPLICATION DILUTION RATIO:	% DYE TO System Fluid:	USE WITH
0IL-GL0® 20/6* 0IL-GL0® 20-8 0IL-GL0® 20-P 0IL-GL0® 20-G	Fluoresces Yellow	SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS: Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	
OIL-GLO® 30/6* OIL-GLO® 30-8 OIL-GLO® 30-P OIL-GLO® 30-G	Fluoresces White	SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS: Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	
OIL-GLO® 33/6* OIL-GLO® 33-8 OIL-GLO® 33-P OIL-GLO® 33-G	Fluoresces Green	SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS: Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gais (30 L) 1 oz (30 ml) per 4 gais (15 L) 1 oz (30 ml) per 4 gais (15 L) 1 oz (30 ml) per 3 gais (11 L) 1 oz (30 ml) per 1 gai (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	■■■ + ↔ OR ■■■ + ↔
0IL-GL0® 40/6* 0IL-GL0® 40-8 0IL-GL0® 40-P 0IL-GL0® 40-G	Fluoresces Bright Blue	SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS: Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gais (30 L) 1 oz (30 ml) per 4 gais (15 L) 1 oz (30 ml) per 4 gais (15 L) 1 oz (30 ml) per 3 gais (11 L) 1 oz (30 ml) per 1 gai (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	
01L-GL0® 44/6* 01L-GL0® 44-8 01L-GL0® 44-P 01L-GL0® 44-G	Fluoresces Yellow Green	SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS: Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil Fuel (gasoline or diesel)	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L) 1 oz (30 ml) per 12-18 gals (45-68 L)	0.10% 0.20% 0.20% 0.26% 0.78% 0.04 - 0.07%	□ ■ ■ + OR □ ■ ■ ■ + ← ← ←
0IL-GL0® 45/6* 0IL-GL0® 45-8 0IL-GL0® 45-P 0IL-GL0® 45-G	Fluoresces Blue	SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS: Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gais (30 L) 1 oz (30 ml) per 4 gais (15 L) 1 oz (30 ml) per 4 gais (15 L) 1 oz (30 ml) per 3 gais (11 L) 1 oz (30 ml) per 1 gai (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	
0IL-GL0® 50/6* 0IL-GL0® 50-8 0IL-GL0® 50-P 0IL-GL0® 50-G	Fluoresces Red	SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS: Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gais (30 L) 1 oz (30 ml) per 4 gais (15 L) 1 oz (30 ml) per 4 gais (15 L) 1 oz (30 ml) per 3 gais (11 L) 1 oz (30 ml) per 1 gai (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	□ + ↔ OR □ + ↔
GAS-GLO® 32** GAS-GLO® 32-P GAS-GLO® 32-G	Fluoresces Yellow	GASOLINE AND DIESEL FUEL SYSTEMS	1 oz (30 ml) per 10 gals (38 L)	0.08%	
WATER-GLO® 801-P WATER-GLO® 801-G WATER-GLO® 802-P WATER-GLO® 802-G	Fluoresces Bluet Fluoresces Fluoresces Green	WATER- AND WATER/GLYCOL-BASED FLUID SYSTEMS WORKS IN BOTH STATIC AND CIRCULATING SYSTEMS	1 pt (473 ml) per 500 gals (1,900 L) water 1 pt (473 ml) per 1,000 gals (3,800 L) water	0.03%	

NOTE: The suffix "8" denotes an 8 oz (237 ml) bottle; suffix "P" denotes a 16 oz (473 ml) bottle; suffix "G" denotes a 1 gal (4 L) pail. Other sizes also available.

The dilution ratios of Spectroline® fluorescent dyes to the host fluids shown above are only guidelines. These ratios can be increased or decreased depending on the fluorescent response required and the ambient lighting conditions. A simple way to check for proper fluorescence is to remove a small amount of host fluid from the system and add the suggested amount of dye to it. Then shine a Spectroline® leak detection lamp on this sample mixture and check for a bright fluorescent response.

* Package of (6) 1 oz (30 ml) bottles ** Case of (24) 1 oz (30 ml) bottles † Appears clear. Will not discolor host fluid.



ALL OUR CORDLESS LEAK DETECTION LAMPS FEATURE:

A compact design for getting into tight spaces, a heavy-duty, durable lamp body and powerful, high-intensity LEDs.

OPTI-LUX[™] 365 Rechargeable, UV LED Leak Detection Flashlight

P/N: **OLX-365**

- <u>Twice as powerful</u> as most corded, high-intensity UV lamps
- Works with <u>all</u> systems and dyes, including difficult-tofluoresce yellow, white and blue dyes — even in dirty fluids
- <u>4 hours</u> of continuous inspection between charges
- Includes battery charging cradle with AC and DC cord sets, (1) spare rechargeable lithium-ion battery, UV-absorbing glasses, belt holster, lanyard and small carrying case





OPTILUX



LeakTracker[™] Battery Operated, UV LED Leak Detection Flashlight

P/N: **LT-300**

- More powerful than most corded, high-intensity UV lamps
- Works with <u>all</u> oil- and water-based fluorescent dyes, including difficult-to-fluoresce yellow, white and blue dyes — even in dirty fluids
- <u>4 hours</u> of continuous inspection between charges
- Includes 3 AAA batteries, UV-absorbing glasses, belt holster, lanyard and small carrying case



RUNTIME

20^{' Range} (6 m)

 \rightarrow

UV LED

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3

AAA BATTERIES



CORDLESS LED LEAK DETECTION LAMPS



OPTI-LUX[™] 400 Rechargeable, Violet Light LED Leak Detection Flashlight

P/N: **0LX-400**I

- Power comparable to high-intensity 150W lamps
- <u>4 hours</u> of continuous inspection between charges
- Includes battery charging cradle with AC and DC cord sets, fluorescence-enhancing glasses and lanyard



NOTE: For most applications, our 400 Series lamps do not require fluorescence-enhancing glasses.





VIOLET LIGHT LED LAMPS



OPTIMAX[™] 400 Battery Operated, Violet Light LED Leak Detection Flashlight

P/N: OPX-400ICS

- Provides optimal fluorescent dye response and contrast
- Power comparable to high-intensity 150W lamps
- <u>5 hours</u> of continuous inspection between charges
- Includes 3 AAA batteries, fluorescence-enhancing glasses, belt holster and lanyard



NOTE: For most applications, our 400 Series lamps do not require fluorescence-enhancing glasses.



FOR SMALL-MEDIUM SIZED SYSTEMS





OIL-BASED

SYSTEM

FLUORESCES

YELLOW/

GREEN

Complete LeakTracker™ Kit

Ideal for <u>all</u> industrial fluid system applications.

P/N: **LTK-441**

- LT-300 LeakTracker[™] high-intensity, battery operated LED leak detection flashlight
- 8 oz (237 ml) twin-neck bottle of patented OIL-GLO[®] 44 concentrated oil dye. Treats up to 64 gallons (242 L) of fluid.



FOR LARGE SIZED SYSTEMS



Complete OPTI-LUX[™] 400 Kit

The most powerful kit for finding leaks in oil-based fluid systems.

P/N: **OLK-444**

- OLX-400I OPTI-LUX[™] 400 high-intensity, rechargeable LED leak detection flashlight
- 16 oz (473 ml) twin-neck bottle of patented OIL-GLO[®] 44 concentrated oil dye. Treats up to 128 gallons (484 L) of fluid.





Complete OPTIMAX[™] 400 Kit

Specially designed for finding leaks in oil-based fluid systems.

P/N: **0PK-441**

- OPX-400I OPTIMAX[™] 400 high-intensity, battery operated LED leak detection flashlight
- 8 oz (237 ml) twin-neck bottle of patented OIL-GLO[®] 44 concentrated oil dye. Treats up to 64 gallons (242 L) of fluid.





Complete OPTI-LUX[™] 400 Kit

The most complete kit for finding leaks in waterand water/glycol-based systems.

P/N: **OLK-402**

- OLX-400I OPTI-LUX[™] 400 high-intensity, rechargeable LED leak detection flashlight
- 16 oz (473 ml) twin-neck bottle of WATER-GLO® 802 concentrated water dye. Treats up to 1000 gallons (3,800 L) of water.



UV LED LAMP LEAK DETECTION KITS



→ EagleEye[™] Hands-Free UV/White Light LED Kit

Features the lightweight, cool-running EE-365 EagleEye[™] LED lamp, with two ultra-high intensity UV LEDs and a three-LED white light assembly.

P/N: **EK-365**

- · Power comparable to high-intensity 100W lamps
- Adjustable strap allows lamp to be worn on a hard hat or directly on the head for complete hands-free operation
- Works with <u>all</u> oil- and water-based fluorescent dyes. Especially effective on difficult-to-fluoresce yellow, white and blue dyes even in dirty fluids.
- Built-in fan keeps LEDs cool to maintain optimum intensity during extended use
 Lithium-ion battery provides up to 90 minutes of continuous inspection between charges. Two spare batteries included.





Kit Includes:

EE-365 EagleEye[™] UV lamp with splash guard, integral particulate filter, rechargeable lithium-ion battery, lanyard, (2) spare splash guards, head strap, (2) spare batteries, battery charging cradle with AC and DC cord sets UV-absorbing spectacles and a soft carrying case.

• TRITAN[™] 365 UV LED Lamp Kit

Ultra-high intensity broad-beam UV LED lamp.

P/N: **TRI-365**HB

- <u>Three</u> UV LEDs and one white light LED
- Instant-on operation; no warm-up time required
- Broad-beam design provides wider coverage area than conventional UV leak detection lamps
- Rubber bumper with Borofloat® glass lens protects LEDs from damage
- · Built-in fans keep LEDs cool to maintain optimum output during extended use



Also Available

TRITAN[™] 365 AC/DC UV LED Lamp Kit P/N: TRI-365MHB

Features the battery-operated TRITAN[™] 365 UV LED lamp











OIL SAMPLE TEST KITS

SAMPLE TEST KITS HELP YOU SELECT THE CORRECT LEAK DETECTION DYE AND LAMP TO MEET YOUR SPECIFIC REQUIREMENTS.

Test Your Oil Samples Yourself, Right in the Field!

These two convenient kits contain everything needed to collect samples and do a fast analysis to determine the right OIL-GLO[®] dye, dilution ratio and Spectroline[®] leak detection lamp.



Each kit comes complete with a color chart, instructions, black evaluation plate, applicators and (2) 8 oz (237 ml) twin-neck mixing bottles.

Mail-In Kit to Get an Expert Analysis Directly From Spectroline®

Let Spectroline[®] test your oil sample and provide a report with a dye, dilution ratio and lamp recommendation.

Dye Selection/Oil Sample Analysis Kit

Contains everything needed to collect an oil sample and send it to us for a professional analysis.

P/N: **AK-1000**

Makes sample collection and shipping fast and easy! Upon receipt, our expert chemists will test your oil sample and provide a report with dye, dilution ratio and leak detection lamp recommendations.



Kit Includes:

Oil sample analysis form, 8 oz (237 ml) sample bottle with lid, absorbent cloth, plastic bag with tie, pressure-sensitive tape, box-sealing tape, shipping label, packaging instructions and cardboard shipping box.

SPECIALTY TOOLS



Marksman"

Features advanced heterodyne circuitry and "Sound Signature Technology" to covert and amplify inaudible ultrasonic sounds into audible "natural" sounds. Provides quick diagnosis of leaks and defects before they become major breakdowns!

SCAN QR CODE TO LEARN MORE



P/N: **MDE-2000**LNC

GIIIID

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- 5-LED signal-intensity indicator and audible alarm easily locate the exact problem source
- Internal Noise Control (INC) ensures tool is unaffected by ambient noise. Ideal for use in extremely noisy environments.
- Self-adjusting Automatic Gain Control (AGC) circuitry enhances sensitivity and simplifies operation
- · Laser pointer to help pinpoint the source of pressurized leaks
- Adjustable touch-control sensitivity pad and power switch

- Quickly detects compressed air, natural gas, propane tank, vacuum, steam, refrigerant and other pressurized leaks
- · Finds gear and bearing wear in internal components and electric motors
- Precision-engineered air probe helps isolate leak sources in cramped areas
- Unique ultrasonic emitter helps locate faulty seals, gaskets and weather stripping in doors, windows, ductwork and other non-pressurized enclosures
- Comes complete with ultrasonic receiver, ultrasonic emitter, air probe, contact probe, noise-cancelling headphones, (2) D cell batteries and carrying case

PRO-Chek CG[™] Combustible Gas Leak Detector

Ideal for finding leaks in natural gas systems, propane tanks, pipelines, regulators and valves, heat exchangers and many other combustive gas applications!

P/N: **CG-1000**

- <u>Certified intrinsically safe</u> for use in combustive/explosive environments
- Adjustable sensitivity control
- Twice as sensitive as competitive units
- Detects natural gas, propane, ammonia, methanol, ethanol, ethane, butane and other gases
- Variable-intensity audible alarm and flashing LEDs quickly determine leak size and strength
- · Auto-zeroing function helps ignore background gas levels in test area
- Rugged flexible probe allows leak checking in tight spaces
- Field-replaceable sensor eliminates downtime
- Includes sensor, (2) D cell batteries and carrying case



uno	OLINOITIVITI
Acetone	50 ppm
Acetylene	50 ppm
Ammonia	20 ppm
Butane	5 ppm
Carbon Dioxide	500 ppm
Chlorine	1 ppm
Cyclopentane	5 ppm
Ethane	5 ppm
Ethanol	5 ppm
Ethylene	500 ppm
Gasoline	1 ppm
Hydrogen	500 ppm
Hydrogen Sulfide	5 ppm
Iso-butane	5 ppm
Methane	5 ppm
Methanol	50 ppm
Methyl Chloride	5 ppm
Methyl Ether	500 ppm
Propane	5 ppm
Vinyl Chloride	5 ppm

This is a partial list of gases that are detectable by the PRO-Chek CG™





ROOM & Pillar



SURFACE MINES



WORKSHOPS & INDUSTRIAL LOCATIONS

INDUSTRIAL SAFETY PRODUCTS

Protect your most valuable asset — your workforce!

PAGES 14-17

14 | SPECTROLINE[®] | The Most Trusted Name in Fluorescent Leak Detection

FLUIDSAFE™ ADDITIVE

Accidental chemical and industrial fluid leaks can be quite costly, impacting

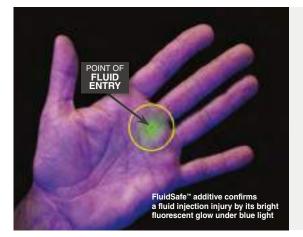
the health and safety of workers, the environment and your bottom line. With the renewed demand for stricter safety and environmental regulations, it's more important than ever for all industries that deal with hazardous chemicals and fluids to maintain a safe and secure worksite and prevent leak-related accidents.





FluidSafe[™] Hydraulic Fluid Additive: Two Prong Approach

Mining, forestry, agriculture, construction, and many other industries use heavy equipment outfitted with high-powered hydraulic fluid systems. These systems operate under very high pressures to generate greater production output. A vast amount of energy is contained within these systems, even after shutdown and the potential harm the accidental release of this high pressure energy can do to workers cannot be overemphasized.



FluidSafe[™] is a revolutionary fluorescent additive that is specifically designed to aid in the detection and surgical removal of hydraulic fluid under the skin, in the event of accidental high-pressure injection.

This not only allows the quick and accurate detection of fluid injection injuries on site, permitting the triage of cases not requiring surgery, but also helps pinpoint the exact location of hydraulic fluid under the skin, assisting in limiting soft tissue dissection should surgery be required.

When viewed under high-intensity blue light (450 nm), FluidSafe's fluorescent green glow can be seen under the skin. The green fluorescent response will remain visible in the tissue for at least 24 hours after the injection, with no ill effects to the human body.

FluidSafe[™] also helps detect leaks in hydraulic hoses, fittings, seals and other components. When used as part of a comprehensive preventative maintenance program with a SafetyBlu[™] blue light inspection kit, it can reduce or even eliminate hydraulic fluid loss, minimize equipment breakdown and decrease the risk of injection injuries.





Long Wall

Room and Pillar



Surface Mines



Workshops and Industrial Locations





FLUIDSAFE[™] ADDITIVE LEAK DETECTION PRODUCTS & KIT

OIL-BASED

SYSTEM

FLUORESCES

GREEN



Fluorescent Additive

FluidSafe[™] comes in two unique blends to work with both oil-based and oil-inwater emulsion hydraulic fluids

Available in a variety of sizes to meet your specific needs.



OIL-BASED FORMULA

FSOG-250	8.5 oz (250 ml) twin-neck bottle
FSOG-500	17 oz (500 ml) twin-neck bottle
FSOG-1L	34 oz (1 L) twin-neck bottle
FSOG-1G	1 gal (4 L) container
FSOG-5G	5 gal (19 L) container

SUGGESTED DILUTION RATIO: 1 ounce (30 ml) of dye per 12.6 gals (47.6 L) of host oil





GRFFN

WATER-BASED FORMULA

FSWG-250	8.5 oz (250 ml) twin-neck bottle
FSWG-500	17 oz (500 ml) twin-neck bottle
FSWG-1L	34 oz (1 L) twin-neck bottle
FSWG-1G	1 gal (4 L) container
FSWG-5G	5 gal (19 L) container

SUGGESTED DILUTION RATIO: 1 ounce (30 ml) of dye per 189 gals (715 L) of operating fluid

SafetyBlu[™] Blue Light Inspection Kit

This kit is specially designed to work with FluidSafe[™] fluid additive to quickly detect hydraulic fluid injection injuries under the skin, up to 24 hours. Kit would go with EMT and injured person to the ER.

P/N: **SB-450**

It's also ideal for the fast and easy detection of small leaks in hydraulic systems hoses, fittings, seals and other components, before their safety and integrity has been compromised.

· High-intensity, 450 nm blue light LED flashlight



THE TRUE ECONOMIC IMPACT OF HYDRAULIC LEAKS

INJECTION INJURIES

COST TO EMPLOYER for Typical Fluid Injection Injury

\$32,000 for 6 weeks compensation, including medical bills and surgeon fees

ation, for 2 weeks bills of light duty s

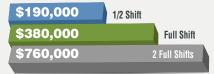
\$12,000 Replacement contract fitter for 8 weeks



\$3,000

PRODUCTION COSTS (Numbers are based on longwall coal downtime)

unibers are based on longwall coal downline



Production costs for other metals/mineral/mining production may differ. In the U.S., an average of \$250,000 per day for up to 14 – 21 days is possible, plus MSHA fines of up to \$100,000.





FLUID REPLACEMENT COSTS

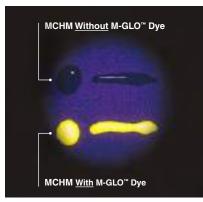
A recent study by Exxon/Mobil U.S. found that the average manufacturing operation uses <u>four times</u> the quantity of hydraulic fluid than their equipment reservoirs actual hold. It has been estimated that in North America alone, over <u>100</u> million gallons (380 million liters) of fluid could be saved every year if leakage were eliminated. A single hydraulic leak of one drop per second translates into <u>420 gallons (1.600 L)</u> lost per year. At \$5.00 per gallon, the annual cost of this leakage would be <u>\$2,100</u>. Larger leaks are even more financially devastating. For instance, a 1/16" (1.6 mm) hole in a hydraulic hose can leak 5 gallons (19 L) per minute – the equivalent of <u>7.200</u> gallons (27.000 L) at a cost of <u>\$36,000</u> in just one day!



Fluorescent Leak Detection Dye

This unique dye finds small leaks in crude MCHM (4-methylcyclohexanemethanol) chemical storage tanks before they lead to catastrophic spills. It allows easy detection and tracing of chemical spills in soil or water, guickly determining and limiting the extent of possible contamination.

Just add a small amount of M-GLO[™] to the chemical storage tank, and circulate it thoroughly to mix. When tank and pipes are scanned with a high-intensity long-wave (365 nm) UV inspection lamp, any and all leaks glow a bright yellow. M-GLO is ideal when used as part of a comprehensive preventive maintenance program, for OSHA and EPA compliance.



MCHM samples viewed under long-wave UV (365 nm) light

BENEFITS OF M-GLO:



HIGHEST QUALITY Dye is filtered down to 2 microns.

COST EFFECTIVE

Highly concentrated formulation. One gallon (4 L) of dye treats 6,400 gallons (24,226 L) of crude MCHM.

When viewed under the naked eye, the clear,

colorless appearance of crude MCHM is

After adding a small amount of M-GLO™

fluorescent dye, the chemical will glow a bright yellow color under high-intensity

spills much easier to trace.

long-wave (365 nm) light, making leaks and

virtually undetectable in soil or water.



VERSATILE Pinpoints the exact source of even the smallest, most elusive leaks.



MGOY-50

M-GL0/* F

10.11

M-GLO[™] DYE

MGOY-5G

MGOY-1T

fluorescent response.

MGOY-1G 1 gal (4 L) container

MGOY-55G 55 gal (208 L) container

5 gal (19 L) container

SUGGESTED DILUTION RATIO: 1 gal (4 L) of dye per 6,400 gals (4,226 L) of crude MCHM

NOTE: The dilution ratio of M-GLO[™] fluorescent dye to the host fluid shown above is only a guideline. The ratio can be increased

or decreased depending on the fluorescent response required and

the ambient lighting conditions. A simple way to check for proper fluorescence is to remove a small amount of host fluid from the

system and add the suggested amount of dye to it. Then shine the UV inspection lamp on this sample mixture and check for a bright

264 gal (1,000 L) container

for MCHM Look Delector

PLUCHESCUS FELLIP

SEVERAL SIZES

Available in 1 gallon (4 L), 5 gallon (19 L), 55 gallon (208 L) and 264 gallon (1,000 L) containers.

FLUORESCES

YELLOW

OPTI-LUX[™] 365 UV LED Flashlight Kit

Super-compact and rugged! Use with M-GLO[™] leak detection dye to quickly and easily locate chemical leaks.

P/N: 0LX-365

- Twice as powerful as most corded, high-intensity UV lamps
- · Works with all systems and dyes. Especially effective on difficult-to-fluoresce yellow, white and blue dyes - even in dirty fluids
- · Convenient on/off switch for easy, one-handed operation
- Instant-on operation; lamp reaches full power immediately!
- Powered by one rechargeable lithium-ion battery. Comes with a spare battery. Each provides 4 hours of continuous inspection time between charges.

















RECIPROCATING ENGINE LUBRICATION SYSTEMS



AVIATION PRODUCTS

Locate leaks fast so you can fly high.

NULLESS GAL



AERO-BRITE™ LEAK DETECTION DYE



FAST The quickest way to inspect for leaks in aircraft fuel, lubrication and hydraulic systems.



SAFE Specially formulated to accommodate the host fluid. Will not damage the fluid properties or any of the system components.



VERSATILE

Allows inspection of the entire system under virtually all operating conditions. Ideal for both in-flight and static testing.



COST EFFECTIVE Super-concentrated.

Use less per dose!

AERO-BRITE[™] Universal Fluorescent Leak Detection Dye

Locates all leaks in petroleum- and synthetic-based aviation fluid systems. Checks an entire system in just minutes. Ideal for use as part of a diagnostic/preventive maintenance program for commercial and military aircraft fuel and fluid systems.

P/N: **AD-8609**

-0008	8 oz (237 ml) twin-neck bottle	
-0016	16 oz (473 ml) twin-neck bottle	
-0032	32 oz (946 ml) twin-neck bottle	
-0100	1 gal (4 L) container	

Meets Mil Spec MIL-PRF-81298E, Type III for aircraft fuel systems



SIEM GREEN

SUGGESTED DILUTION RATIOS

Host Fluid	Dye Amount
Jet Fuel (static)	2 oz (60 ml) dye per 100 gals (379 L)
Jet Fuel (in-flight)	1.6 oz (47 ml) dye per 100 gals (379 L)
Hydraulic Fluid	0.25 oz (7 ml) dye per 4 gals (15 L)
Engine Oil	0.25 oz (7 ml) dye per 1 gal (4 L)

Also available: SP-8609-0100 fluorescent leak detection dye for aircraft fuel systems (NSN: 6820-01-386-8609). Can also be used to locate hydraulic and engine oil leaks. Supplied in 1 gallon (4 L) container.

AVIATION LEAK DETECTION KITS



595 .XVIII

IDEAL FOR PINPOINTING LEAKS IN FUEL, LUBRICATION AND HYDRAULIC SYSTEMS.



Aviation Leak Detection Kit

The most complete kit for finding leaks in aircraft fluid systems. Works with all petroleum- and synthetic-based lubricants and fluids.

P/N: ALK-365

- OPX-365 OPTIMAX[™] 365 super-high intensity, cordless, rechargeable UV LED leak detection flashlight
- 8 oz (237 ml) twin-neck bottle of AERO-BRITE[™] universal fluorescent dye for aircraft fluid systems





OPTI-LUX[™] 365 UV LED Flashlight Kit

Super-compact and rugged! Works with all petroleum- and synthetic-based lubricants and fluids.

P/N: **0LX-365**

- Twice as powerful as most corded, high-intensity UV lamps
- Works with all systems and dyes. Especially effective on difficult-to-fluoresce yellow, white and blue dyes — even in dirty fluids • Convenient on/off switch for easy, one-handed operation
- Instant-on operation; lamp reaches full power immediately!
- Powered by one rechargeable lithium-ion battery. Comes with a spare battery. Each provides 4 hours of continuous inspection time between charges.



ULTRASONIC DIAGNOSTIC SPECIALTY TOOLS

Warksman™I ULTRASONIC DIAGNOSTIC TOOL Hear What You Need To Hear!

PROVIDES QUICK DIAGNOSIS AND DETECTION OF PROBLEMS BEFORE THEY BECOME MAJOR BREAKDOWNS.

Marksman[™] II Ultrasonic Diagnostic Tool

Features advanced heterodyne circuitry and "Sound Signature Technology" to covert and amplify inaudible ultrasonic sounds into audible "natural" sounds. Provides quick diagnosis of leaks and defects before they become major breakdowns!

P/N: **MDE-2000**LNC

- 5-LED signal-intensity indicator and audible alarm easily locate the exact problem source
- Internal Noise Control (INC) ensures tool is unaffected by ambient noise. Ideal for use in extremely noisy environments.
- Self-adjusting Automatic Gain Control (AGC) circuitry enhances sensitivity and simplifies operation
- · Laser pointer to help pinpoint the source of pressurized leaks
- · Adjustable touch-control sensitivity pad and power switch
- Quickly detects compressed air, natural gas, propane tank, vacuum, steam, refrigerant and other pressurized leaks
- Finds gear and bearing wear in internal components and electric motors
- Precision-engineered air probe helps isolate leak sources in cramped areas
- Ideal for aircraft pneumatic systems, fuel system pressurization testing, oxygen line and valves, internal leaks in hydraulic valves and actuators, fuel cell testing, identifying cavitation in hydraulic pumps, arcing in wave guides, cabin pressure testing, pilot static system, health checks, emergency evacuation slides, electrical discharge, air ducts and air conditioning systems, tire pressure retention, cabin and cockpit window and door seals, and other aircraft maintenance
- Comes complete with ultrasonic receiver, ultrasonic emitter, air probe, contact probe, noise-cancelling headphones, (2) D cell batteries and carrying case





SCAN QR CODE

TO LEARN MORE



MARINE PRODUCTS

Keep your marine vessel leak free and in the water.

PAGES 22-23

MARINE LEAK DETECTION KIT





USER FRIENDLY

Comes with <u>two</u> uniquely colored fluorescent dyes to distinguish between different leaking fluid systems.



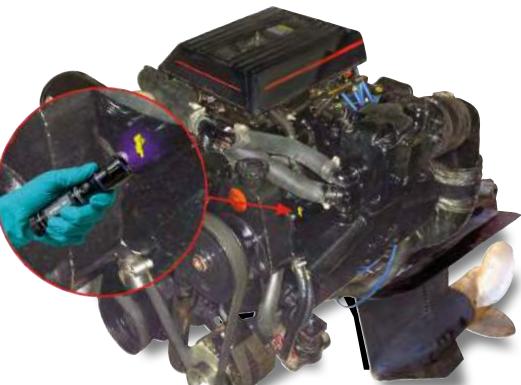
NSF CERTIFIED

OIL-GLO[®] 44 and OIL-GLO[®] 50 are NSF Certified and meet category codes HTX-2 and HX-2.



ENVIRONMENTALLY FRIENDLY

Helps prevents oil slicks which could lead to marina fines or penalties from Environmental Protection Agency (EPA) and OSHEA.





Marine Leak Detection Kit

The fastest, easiest and most accurate way to find fuel, oil and hydraulic leaks in **small to medium** sized craft.

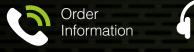
P/N: **OPK-400**M

- OPX-400I OPTIMAX[™] 400 high-intensity, battery operated violet light LED leak detection flashlight
- 1 oz (30 ml) bottle of patented OIL-GLO[®] 44 concentrated oil dye. Treats up to 8 gallons (30 L) of fluid.
- 1 oz (30 ml) bottle of OIL-GLO[®] 50 concentrated oil dye. Treats up to 8 gallons (30 L) of fluid.



OIL-BASED SYSTEM

FLUORESCES Yellow/ Green







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Product literature, instructions and a full staff of trained customer service representatives and technical service engineers are available for support. Additional product information and support are available on our website www.spectroline.com.



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THE INVENTORS OF FLUORESCENT LEAK DETECTION

Since 1955, Spectronics Corporation has been the industry leader of inventing and manufacturing fluorescent dyes and materials. More than six decades since its inception, the goal of Spectronics is still the same — to produce effective, top-quality products that are on the cutting edge of today's technology with the utmost dedication to customer satisfaction.

Our Industrial product line is no exception. Our Spectroline[®] brand of products are the first and only choice for professionals around the world.





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