



FLUORESCENT LEAK DETECTION FOR **INDUSTRIAL SYSTEMS**



MOBILE HYDRAULIC EQUIPMENT

- Construction/Paving
- Agricultural
- Hydraulic Lifts



FACILITY MAINTENANCE

- Injection Molding
- Stamping
- Power Plants

STATIONARY HYDRAULIC EQUIPMENT

- Mining
- Drillers
- Power Packs

OEM ON-LINE QUALITY CONTROL

- Engines/Parts
- Hydraulic cylinders
- Residual fluids on products



FLUORESCENT LEAK DETECTION TOOLS

Working for you 24/7 – Once IN, always ON.



THE ORIGINAL FLUORESCENT LEAK DETECTION SOLUTION!

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THE SPECTROLINE ADVANTAGE

Fluorescent Leak Detection is an extremely accurate and effective way to find Industrial system leaks. It's important to choose a brand who produces pure, safe, highly concentrated dyes and quality inspection lamps to get the most benefit from the technology.



As the **inventors of ultraviolet fluorescent leak detection**, we take pride in crafting the most superior leak detection dyes in the industry.

Spectronics Corporation is a family owned company with three generations of experience in delivering award-winning professional service and the industry's most powerful leak detection dyes, additives and lamps.



SPECTRONICS

Inventors & Pioneers

INDUSTRIAL SYSTEM APPLICATIONS FOR LEAK DETECTION

Whether it's oil, water or hydraulic fluid, **leaks** impact both the **environment** and **your bottom line**.

Undetected leaks can lead to equipment breakdown, lost production time, safety issues, and even fines and legal penalties.

Spectroline[®] dyes can **remain safely within the system** and are NSF certified to meet non-contact food-grade requirements. Ideal for use as **part of a diagnostic & preventative maintenance program** to keep systems operating efficiently.





FINDING LEAKS AT THE SPEED OF LIGHT

ULTRA DYES

UV FLUORESCENT DYES FOR FLUID SYSTEMS

Ideal for use as part of a diagnostic/preventative maintenance program.

6

OIL-GLO® ULTRA UV FLUORESCENT DYES



Oil-based dyes meet NSF

category codes HTX2 and HX-2.

SCAN OR CLICK

For Synthetic and Petroleum-Based Fluid Systems. Available in several distinct colors.

- Works in any closed-loop circulatory systems where oil-based fluids are used.
- Engineered to work with any host fluid without damaging the fluid's properties or any of the system's components.
- Ideal for lubricant and hydraulic leaks.
 - Some applications include: facility maintenance and machinery, mobile hydraulic equipment, stationary hydraulic equipment, oem on-line quality control.



AVAILABLE IN MULTIPLE COLORS





GAS-GLO[™] ULTRA UV FLUORESCENT DYE

For Gasoline and Diesel Fuel Systems. Fluoresces Yellow.

- Perfect for preventive maintenance and to reduce equipment downtime.
- Highly concentrated. Contain more active ingredients per dose than competitors.
- Ideal for off-road, heavy-duty or agricultural equipment. Mining equipment and generators, marine and railroad engines.

Yellow

WATER-GLO® ULTRA UV FLUORESCENT DYES

NSF

Water-based dyes meet NSF category codes G7, GX and

HTX2

SCAN OR CLICK

FOR VIDEO

For Water and Water/Glycol Fluid-Based Systems. Available in two colors.

- Quickly pinpoint the exact source of all water leaks including tiny, evaporated and condensation-covered leaks.
- Works in both static and circulating systems.
- Can be used as a diagnostic tool for testing seams, welds, seals, fittings and flow-rate measuring.
- Ideal for heat transfer fluid systems.
- Some applications include: boilers, heaters/ pumps, sprinkler systems, storage tanks.

FLUORESCES EVEN WHEN DRY WON'T CHANGE COLOR OF THE HOST FLUID

AERO-BRITE ULTRA

Green

VATER-GLO ULTRA

Blue

JLTRA

Green

UNIVERSAL AND MOST ECONOMICAL

WATER-GLO ULTRA

DUNE

GAS-GLO" ULTRA SPI-CGY-10

FOR ALL FUEL-LASED FLURDS

GAS-GLO ULTRA

X

AERO-BRITE[™] ULTRA UV FLUORESCENT DYE

For Synthetic or Petroleum-Based Aviation Fluid Systems. Fluoresces Green.

- Allows inspection of the entire system under virtually all operating conditions.
- Can be used for commercial and military aircraft fuel & fluid systems.
- · Ideal for both in-flight and static testing.
- Systems include: aircraft fuel systems, turbine engines, hydraulic systems, reciprocating engine lubrication systems.

Also Available: SP-8609-0100 (NSN:6820-01-386-8609)

2022

Meets ALL requirements of Military Spec MIL-PRF-81298E, Type III For Aircraft Fuel Systems

PECTROLINE

SPI-ABG-32



)-BRITE ULTRA

PRODUCT NO./DYE C	OLOR	APPLICATION	SUGGESTED APPLICATION DILUTION RATIO:	USE WITH
OIL-GLO [®] ULTRA				
SPI-OGY-16 SPI-OGY-32 SPI-OGY-1G Yellow SPI-OGW-16 SPI-OGW-32 SPI-OGW-16 White	SPI-OGBB-16 SPI-OGBB-32 SPI-OGBB-16 SPI-OGB-16 SPI-OGB-32 SPI-OGB-16 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 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)	
SPI-OGG-16 SPI-OGG-32 SPI-OGG-1G	Green	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)	→ + ← → OR → + ← → → → → → → → → → → → → → → → → →
SPI-OGYG-16 SPI-OGYG-32 SPI-OGYG-1G	Yellow Green	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)	

GAS-GLO™ ULTRA

SPI-GGY-16 SPI-GGY-1G	GASOLINE AND DIESEL FUEL SYSTEMS	1 oz (30 ml) per 10 gals (38 L)	
Yellow			

WATER-GLO® ULTRA

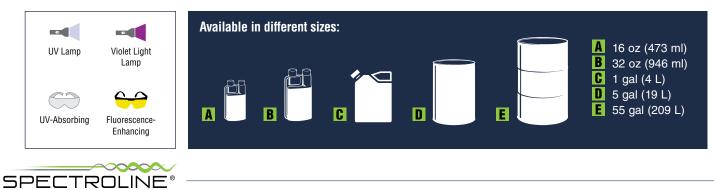
SPI-WGB-16† SPI-WGB-32†	Blue	WATER AND WATER/ GLYCOL-BASED FLUID SYSTEMS	1 pt (473 ml) per 500 gals (1,893 L) water	
SPI-WGG-16 SPI-WGG-32 SPI-WGG-1G	Green	WATER AND WATER/ GLYCOL-BASED FLUID SYSTEMS	1 pt (473 ml) per 1,000 gals (3,785 L) water	

AERO-BRITE[™] ULTRA

SPI-ABG-16 SPI-ABG-32 SPI-ABG-1G SP-8609-0100 (NSN:6820-01-386-8609) Green	SYNTHETIC OR PETROLEUM- BASED AVIATION FLUID SYSTEMS: Jet Fuel (static) Jet Fuel (in-flight) Hydraulic Fluid Engine Oil	2 oz (60 ml) per 100 gals (379 L) 1.6 oz (47 ml) per 100 gals (379 L) 0.25 oz (7 ml) per 4 gals (15 L) 0.25 oz (7 ml) per 1 gal (4 L)	■■■ + ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
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† Appears clear. Will not discolor host fluid.

LEAK DETECTION



LEAK DETECTION KITS

FOR ALL OIL-BASED FLUID SYSTEMS



OIL-GLO® ULTRA COMPLETE

Fluorescent Leak Detection Kit

Great entry kit specifically designed to find leaks in oil-based fluid systems.



- **SPI-VL** Violet light LED, battery operated leak detection flashlight
- SPI-OGYG-8 Patented 8 oz (237 ml) twin-neck bottle of concentrated oil dye (glows yellow-green). Treats up to 64 gallons (242 L) of fluid.
- RP-UVS-40 Fluorescence-enhancing glasses





LeakTracker[™] COMPLETE

Fluorescent Leak Detection Kit

Ideal for all industrial fluid system applications. SPI-LT UV LED light works with all Spectroline[®] dyes.



- SPI-LT LeakTracker[™] high-intensity, battery operated UV LED leak detection flashlight
- SPI-0GYG-8 Patented 8 oz (237 ml) twin-neck bottle of concentrated oil dye (glows yellow-green). Treats up to 64 gallons (242 L) of fluid.
- **RP-UVS-30** UV-Absorbing Glasses





FOR WATER OR WATER/GLYCOL-BASED FLUID SYSTEMS



WATER-GLO® ULTRA COMPLETE

Fluorescent Leak Detection Kit

The most complete leak detection kit for water and water/glycol-based fluid systems.

SPI-VLWGG



- SPI-VL Violet light LED, battery operated leak detection flashlight
- SPI-WGG-8 Patented 8 oz (237 ml) twin-neck bottle of concentrated water dye (glows green). Treats up to 500 gallons (1,893 L) of fluid.
- RP-UVS-40 Fluorescence-enhancing glasses



FLUORESCENT DYE CLEANER

GLO-AWAY™ PLUS

Fluorescent Dye Cleaner

RP-GA-2

- 2 oz (60 ml) spray bottle
- New formulation that works to dissolve fluorescent dye from the leak site.
- Requires less application & less time removing left over dye.



CONCENTRATED FORMULA

Stronger formula makes it easier to remove the toughest dye stains.



OTHER DYE Cleaners



GLO-AWAY PLUS



LAMPS

LAMP COMPARISON CHART

For dyes to fluoresce they require the use of an ultraviolet or violet inspection lamp. All Spectroline cordless leak detection inspection lamps are specifically engineered for optimal performance when used with Spectroline fluorescent dyes. They all feature a compact design for getting into tight spaces a durable lamp body and powerful, high-intensity LEDs that stand up to years of heavy use.

	Part Number Trade Name	Bulb Type	Leak Detection Range	Runtime	Power	OIL-GLO® Ultra Dyes	WATER-GLO® Ultra Dyes	GAS-GLO™ Ultra Dye	AERO-BRITE™ Ultra Dye
(Hereit and)	SPI-VL-CS Spectroline [®] Violet Light LED	400 nm Violet LED	25' (8 m) €1	5 hours (Continuous)	3 "AAA" Batteries	۵	٢	N/A	٢
10 mm	SPI-LT LeakTracker™	365 nm UV LED	20' (6 m)	4 hours (Continuous)	3 "AAA" Batteries	<u>د</u>	٩	٩	٩
E C	SPI-LTP LeakTracker™ PLUS	365 nm UV LED	25' (8 m) with laser pointer	9 hours (Continuous)	3 "C" Batteries		٩		٢
NEW!	SPI-LTPR SPI-LTPR-F LeakTracker™ PLUS Rechargeable	365 nm UV LED	25' (8 m) with laser pointer	9 hours (Continuous)	Li-ION Rechargeable Battery		٩	۵	٢



SPECTROLINE®

Violet LED Leak Detection Flashlight

Battery Operated, Violet Light LED Leak Detection Flashlight that is both economical and powerful.

SPI-VL-CS INCLUDES: 3 AAA batteries SPECTROLINE Anti-roll cuff • Fluorescence enhancing glasses • Full-color clamshell packaging **3**x VIOLET 25 ft (8 m) **5**h Inspection Range LED Batteries Runtime **SPECIFICATIONS** Light Source: Violet Light LED **Total Coverage Area** 18 - 36 in (46 - 91 cm) Lamp Style: Cordless Flashlight OIL-GLO® ULTRA Lamp Head Diameter: 1.25 in (3.2 cm) Length: 5.9 in (15 cm) 18 in 36 in Weight: 4.8 oz (0.14 kg) WATER-GLO® ULTRA (91 cm) (46 cm) **Power Source:** 3 "AAA" batteries **Run Time:** 5 hours (continuous) 15 in AERO-BRITE™ ULTRA 4 • (38 cm) NOTE: For most applications, our violet light lamp does not require fluorescence-enhancing glasses Leak Detection Range 25 feet (8 m) or more

STATE OF TAXABLE PARTY.

LeakTracker[™]

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UV LED Leak Detection Flashlight

LEAK DETECTION

Battery Operated, UV LED Leak Detection Flashlight that works with all industrial fluid systems and Spectroline® dyes. Operates with pure UV light for a superior fluorescent dye response.







Light Source:	UV LED
Lamp Style:	Cordless Flashlig
Lamp Head Diameter:	1.62 in (4.11 cm
Length:	8.80 in (22.35 cr

weight:
Weight w/Battery:
Power Source:
Run Time:

h

4.6 oz (0.13 kg) 1.10 lbs (0.50 kg) 3 "C" Batteries 9 hours (continuous)

AERO-BRITE[™] ULTRA



LeakTracker[™] PLUS Rechargeable

UV LED Leak Detection Flashlight

The LeakTracker[™] Plus Rechargeable is a high-quality, durable cordless inspection flashlight. The li-ion battery included charges inside the flashlight with ease and convenience when on a work site.



9 hours (continuous)

7 hours for full charge

AERO-BRITE[™] ULTRA



6.56 in (16.7 cm)

Run Time:

Charge Time:

Length:

UV 🖷

UP TO 🥌

I ED

DAHNOST

(()) HEAR WHAT YOU NEED TO HEAR!





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



FOR VIDEO

COMES COMPLETE WITH:

- Ultrasonic Receiver
- **Ultrasonic Emitter**
- Air Probe
- Contact Probe

- - Noise-canceling Headphones
 - Carrying Case
 - Batteries Included

- 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



IDEAL FOR DETECTING:

- Compressed Air Leaks
- Natural Gas and Propane Leaks
- **Pressure and Vacuum Leaks**
- Gear and Bearing Wear
- Electrical Discharge
- Gas and Liquid Turbulence
- Refrigerant Leaks
- Seal and Gas Integrity
- ... and many more!

GOT QUESTIONS?

Q: How do I use fluorescent leak detection dye?

Add our patented dye to the suspect system, then let
 the dye circulate. Once the dye has permeated the system, scan for leaks with one of our high-intensity leak detection flashlights.

All leak sites will glow brightly with escaping fluorescent dye.

Q: Are the dyes system safe?

Spectroline[®] fluorescent leak detection dye is
 engineered to be fully-miscible. It is, by definition, a non-particulate and is filtered down to 2 microns.

This ensures the fluorescent dye doesn't change the precise characteristics of the host fluid. Lubricity, viscosity, and other properties of the original host fluid are completely unaffected when dye is added to the system.

Spectroline[®] fluorescent dyes are also NSF-certified, meaning they are not harmful to the environment, whatsoever.

Q: Why is dye concentration important?

 Dye fluorescence is dependent on the ratio of fluorescent material to carrier oil. Poor performing dyes typically have low levels of fluorescent material. Simply put, poor dyes lack the concentration necessary to provide an effective fluorescent response.

Spectroline[®] dyes are concentrated and able to fluoresce all leak areas brightly. This means Spectroline[®] dyes are more economical because less dye is used per application.



How long does it take to find a leak?

UV MAN HAS ANSWERS!

1-1

Depending on the size of the systems, it may take minutes to a few hours for the dye to circulate completely.

For preventative maintenance, add Spectroline® dye long before you have a problem.

A technician can perform an inspection within a matter of seconds if the dye has already had time to fully circulate.

Works effectively in any closed loop or circulatory system.

Which fluorescent dye color do I select?

Spectroline[®] offers a variety of dye colors that are engineered to best suit specific host fluids and applications.

Use different colors to detect leaks across multiple systems. Color-code each system to ensure leaks are found quickly and with immediate certainty.

Q: Why is Spectroline® trusted by more OEMs than any other brand?

Spectronics Corporation invented fluorescent leak detection in 1955. Today, we are the world's leading manufacturer of ultraviolet equipment and fluorescent leak detection dye.

Our OEM-grade fluorescent dyes are co-solvent free, NSF certified, and can safely remain indefinitely within any oil-based or water-based fluid system.



TRUSTED BY INDUSTRY LEADERS







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INDUSTRIAL 05/23 A22056-4 PRINTED IN USA