

2021

**SPECTROLINE®**  
LEAK DETECTION

PROFESSIONAL GRADE SOLUTIONS

# FLUORESCENT LEAK DETECTION FOR INDUSTRIAL SYSTEMS



HYDRAULIC SYSTEMS



PNEUMATIC SYSTEMS



AVIATION SYSTEMS



# WHY CHOOSE

# SPECTROLINE®

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.

- Fast, easy and accurate
- Finds every system leak
- Environmentally friendly
- Remains safely in the system
- Reduces equipment downtime
- Extends service life
- Cost effective and concentrated
- Perfect for preventative maintenance



Premium quality dye, engineered to meet manufacturers' specifications.



Available in **several distinct colors**  
Color-code to diagnose leaks across **multiple** systems.



OIL-GLO® & WATER-GLO® fluorescent dyes are **registered** to meet non-contact food-grade processing requirements.

## INVENTORS & PIONEERS

For more than 65 years, Spectronics Corporation has engineered the highest-quality, premium performance leak detection dyes and products. As the inventors of ultraviolet fluorescent leak detection, we take pride in crafting the most superior leak detection dyes and inspection lamps 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 and lamps.

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## SELECT FROM SPECTROLINE®'S BRIGHT,

**MULTICOLOR DYE OFFERING**



# ULTRA

UV FLUORESCENT  
DYE FORMULATION

### COLOR-CODE TO DIAGNOSE LEAKS ACROSS MULTIPLE SYSTEMS!

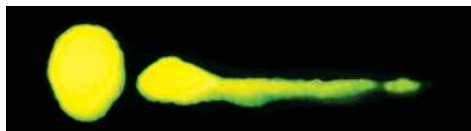
In 2020, Spectroline® announced the release of **ULTRA** Fluorescent Dye - our **brightest, highest quality, and most advanced industrial-grade dye formula.**

Available in multiple colors, the new **ULTRA** formula is independently tested for system compatibility and is filtered down to 2 microns. The result is a fully miscible, high-quality and non-particulate dye formulation that never compromises the integrity of the system.

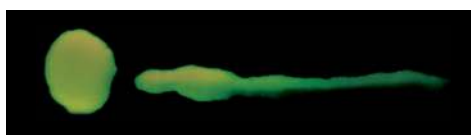
The bottom line: these quality dyes will not change the viscosity or lubricity of any host fluid. They perform better under difficult conditions and have greater stability, making them the perfect tool for **long-term preventative maintenance and leak detection.**

Spectroline® dyes **glow brighter** than the competition.

**ULTRA**  
Dye Formula



Competitor  
Dye Formula



### Fully Miscible

High Quality, non-particulate and filtered down to 2 microns. Won't change the viscosity or lubricity of host fluid.



### Exclusive Formula

Engineered to meet manufacturers' specifications.



### Improved Stability

More tolerant to extreme temperature range & moisture.



### Independently Tested

For system compatibility & will remain safely within the system.



### Improved Shelf Life

Up to 5 years

# ULTRA DYES

## UV FLUORESCENT DYES FOR FLUID SYSTEMS

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



### OIL-GLO® ULTRA

#### UV FLUORESCENT DYES

For Synthetic and Petroleum-Based Fluid Systems. Works in enclosed circulatory systems where oil-based fluids are used.

**Perfect for Lubricants & Hydraulic Leaks**

Oil-based dyes meet NSF category codes HTX-2 and HX-2.



AVAILABLE IN MULTIPLE COLORS

	APPLICATION	YELLOW/GREEN	GREEN	YELLOW	WHITE	BLUE	BRIGHT BLUE
<b>Shown Under UV LIGHT 365 nm</b> 	Light Hydraulic Fluid						
	Dark Hydraulic Fluid						
	Compressor Oil						
	Engine Oil						
	Gearbox Oil						
<b>Shown Under VIOLET LIGHT 400 nm</b> 	Light Hydraulic Fluid						
	Dark Hydraulic Fluid						
	Compressor Oil						
	Engine Oil						
	Gearbox Oil						



### GAS-GLO™ ULTRA

#### UV FLUORESCENT DYE

For Gasoline and Diesel Fuel Systems. Fluoresces Yellow.

**Ideal for Off-Road, Heavy-Duty or Agricultural Equipment**



### AERO-BRITE™ ULTRA

#### UV FLUORESCENT DYE

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



**ALSO AVAILABLE:** SP-8609-0100 (NSN:6820-01-386-8609)

Fluorescent Leak Detection Dye for Aircraft Fuel Systems. Can also be used to locate hydraulic and engine oil leaks. Supplied in 1 gallon / 4 L container.



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



### WATER-GLO® ULTRA

#### UV FLUORESCENT DYES

For Water and Water/Glycol-Based Fluid Systems. Works in both static and circulating systems.

**Ideal for Heat Transfer Fluid System Applications**

Water-based dyes meet NSF category codes G7, GX and HTX-2.



Fluoresces Green

**SPI-WGG  
UNIVERSAL AND  
MOST ECONOMICAL**







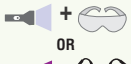


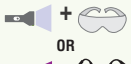



Fluoresces Blue



**SPI-WGB  
FLUORESCES EVEN WHEN DRY  
WON'T CHANGE COLOR OF  
HOST FLUID**

PRODUCT NO./DYE COLOR	APPLICATION	SUGGESTED APPLICATION DILUTION RATIO:	USE WITH
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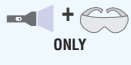

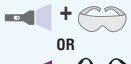

### OIL-GLO® ULTRA

<b>SPI-OGY-1P6*</b> <b>SPI-OGY-8</b> <b>SPI-OGY-16</b> <b>SPI-OGY-32</b> <b>SPI-OGY-1G</b>  <b>Yellow</b>	<b>SPI-OGBB-1P6*</b> <b>SPI-OGBB-8</b> <b>SPI-OGBB-16</b> <b>SPI-OGBB-32</b> <b>SPI-OGBB-1G</b>  <b>Bright Blue</b>	<b>SYNTHETIC OR PETROLEUM-BASED FLUID SYSTEMS:</b> Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	<b>1 oz (30 ml) per 8 gals (30 L)</b> <b>1 oz (30 ml) per 4 gals (15 L)</b>	 <b>ONLY</b>
<b>SPI-OGW-1P6*</b> <b>SPI-OGW-8</b> <b>SPI-OGW-16</b> <b>SPI-OGW-32</b> <b>SPI-OGW-1G</b>  <b>White</b>	<b>SPI-OGB-1P6*</b> <b>SPI-OGB-8</b> <b>SPI-OGB-16</b> <b>SPI-OGB-32</b> <b>SPI-OGB-1G</b>  <b>Blue</b>			
<b>SPI-OGG-1P6*</b> <b>SPI-OGG-8</b> <b>SPI-OGG-16</b> <b>SPI-OGG-32</b> <b>SPI-OGG-1G</b>  <b>Green</b>		Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	<b>1 oz (30 ml) per 8 gals (30 L)</b> <b>1 oz (30 ml) per 4 gals (15 L)</b>	 <b>OR</b> 
<b>SPI-OGYG-1P6*</b> <b>SPI-OGYG-8</b> <b>SPI-OGYG-8CS***</b> <b>SPI-OGYG-16</b> <b>SPI-OGYG-32</b> <b>SPI-OGYG-1G</b>  <b>Yellow Green</b>		Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil Fuel (gasoline or diesel)	<b>1 oz (30 ml) per 8 gals (30 L)</b> <b>1 oz (30 ml) per 4 gals (15 L)</b>	 <b>OR</b> 


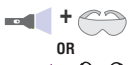

### GAS-GLO™ ULTRA

<b>SPI-GGY-1</b> <b>SPI-GGY-1P24**</b> <b>SPI-GGY-16</b> <b>SPI-GGY-1G</b>  <b>Yellow</b>	<b>GASOLINE AND DIESEL FUEL SYSTEMS</b>	<b>1 oz (30 ml) per 10 gals (38 L)</b>	 <b>ONLY</b>
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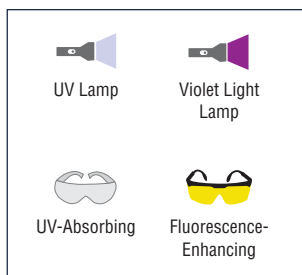
### WATER-GLO® ULTRA

<b>SPI-WGB-16†</b> <b>SPI-WGB-32†</b>  <b>Blue</b>	<b>WATER AND WATER/GLYCOL-BASED FLUID SYSTEMS</b>	<b>1 pt (473 ml) per 500 gals (1,893 L) water</b>	 <b>ONLY</b>
<b>SPI-WGG-8</b> <b>SPI-WGG-8CS***</b> <b>SPI-WGG-16</b> <b>SPI-WGG-32</b> <b>SPI-WGG-1G</b>  <b>Green</b>	<b>WATER AND WATER/GLYCOL-BASED FLUID SYSTEMS</b>	<b>1 pt (473 ml) per 1,000 gals (3,785 L) water</b>	 <b>OR</b> 

### AERO-BRITE™ ULTRA

<b>SPI-ABG-8</b> <b>SPI-ABG-16</b> <b>SPI-ABG-32</b> <b>SPI-ABG-1G</b> <b>SP-8609-0100</b>  <b>Green</b>	<b>SYNTHETIC OR PETROLEUM-BASED AVIATION FLUID SYSTEMS:</b> Jet Fuel (static) Jet Fuel (in-flight) Hydraulic Fluid Engine Oil	<b>2 oz (60 ml) per 100 gals (379 L)</b> <b>1.6 oz (47 ml) per 100 gals (379 L)</b> <b>0.25 oz (7 ml) per 4 gals (15 L)</b> <b>0.25 oz (7 ml) per 1 gal (4 L)</b>	 <b>OR</b> 
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\* Package of (6) 1 oz (30 ml) bottles \*\* Case of (24) 1 oz (30 ml) bottles \*\*\* Available in full-color clamshell package † Appears clear. Will not discolor host fluid.





# ADVANTAGES OF FLUORESCENT LEAK DETECTION



## SYSTEM APPLICATIONS



AIRCRAFT FUEL SYSTEMS



COMPRESSED AIR LINES



COOLING TOWERS



HYDRAULIC SYSTEMS



LIQUID HOLDING TANKS



NATURAL GAS LINES



PIPELINES



PNEUMATIC SYSTEMS



PROPANE TANKS



RECIPROCATING ENGINE LUBRICATION SYSTEMS



TURBINES



TURBINE ENGINES



VACUUM SYSTEMS

# FLUORESCENT LEAK DETECTION: WORKING FOR YOU 24/7 – ONCE IN, ALWAYS ON.



## STEP 1:

Add dye to the system  
& let it circulate



## STEP 2:

Scan system with a  
Spectroline leak detection  
lamp & see any leaks  
glow brightly



Dye continues  
circulating in the  
system 24/7 to identify  
any future leaks



Have peace of mind you're using  
the **ultimate leak detection** and  
**preventative maintenance**  
**solution** in the industry!

# LEAK DETECTION KITS



FOR ALL OIL-BASED FLUID SYSTEMS

VIOLET LIGHT LED



## OIL-GLO® ULTRA COMPLETE Fluorescent Leak Detection Kit

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

SPI-VLOGYG



- **SPI-VL** Violet light LED, battery operated 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.



3x AAA Batteries Included



Fluorescence Enhancing (Optional)



GLO-AWAY™ Plus +



Carrying Case



Dye Treatment Tags

UV LED



## LeakTracker™ COMPLETE Fluorescent Leak Detection Kit

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

SPI-LTOGYG



- **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.



3x AAA Batteries Included



UV-Absorbing Glasses



GLO-AWAY™ Plus +



Carrying Case



Dye Treatment Tags



Belt Holster





## FOR WATER OR WATER/GLYCOL-BASED FLUID SYSTEMS

VIOLET LIGHT LED



### 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.



## 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

All our cordless leak detection lamps feature: A compact design for getting into tight spaces, a durable lamp body and powerful, high-intensity LEDs. They stand up to years of heavy use.

	Part Number Trade Name	Bulb Type	OIL-GLO® Dyes	WATER-GLO® Dyes	GAS-GLO™ Dye	AERO-BRITE™ Dye	Coverage (A/B) ①	Leak Detection Range ②
	<b>SPI-VL-CS</b> Spectrolite® Violet Light LED	400 nm Violet LED			N/A		18 in./36 in. (46 cm/91 cm)	<b>25'</b> (8 m) 
	<b>SPI-LT</b> LeakTracker™	365 nm UV LED	 				3 in./20 in. (7.6 cm/51 cm))	<b>20'</b> (6 m) 





## ECONOMICAL BATTERY-OPERATED VIOLET LIGHT LED



**UP TO**  
**25 ft** (8 m)  
Inspection  
Range

**3x**  
**AAA**  
Batteries  
Included

**5h**  
Runtime

Fluorescence  
Enhancing  
(Optional)

Full-color  
clamshell  
packaging



### SPECTROLINE®

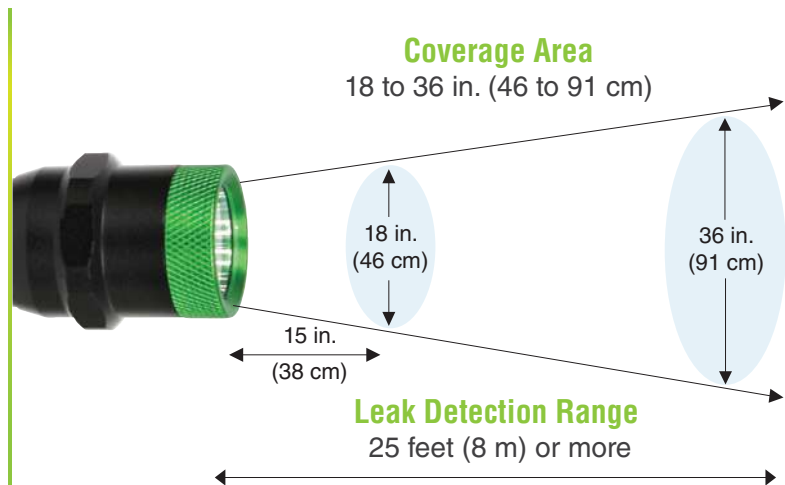
Violet LED Leak Detection Flashlight

**Battery Operated, Violet Light LED Leak Detection Flashlight that is both economical and powerful. Features a pre-focused beam to optimize fluorescent response, anti-roll cuff, a 5-hour runtime and an inspection range up to 25 ft.**

#### SPI-VL-CS

##### INCLUDES:

- 3 AAA batteries
- Anti-roll cuff
- Fluorescence enhancing glasses



#### SPECIFICATIONS

**Light Source:** Violet Light LED

**Lamp Style:** Cordless Flashlight

**Lamp Head Diameter:** 1.25 in (3.2 cm)

**Length:** 5.9 in (15 cm)

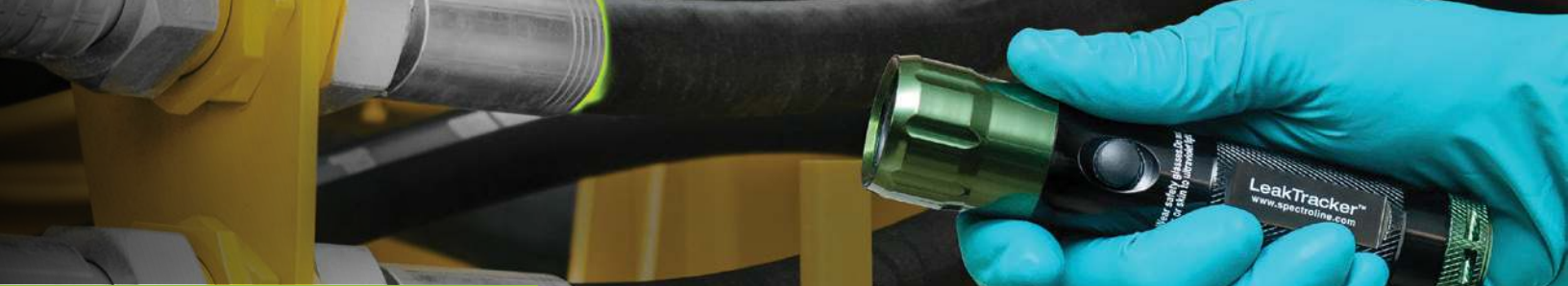
**Weight:** 4.8 oz (0.14 kg)

**Power Source:** Three "AAA" batteries

**Run Time:** 5 hours (continuous)







**COST EFFECTIVE  
BATTERY-OPERATED  
UNIVERSAL UV LED**



**UP TO  
20ft (6m)**  
Inspection  
Range



**3x  
AAA**  
Batteries  
Included



**4h**  
Runtime



UV-Absorbing  
Glasses



**LEAKTRACKER™**  
UV LED Leak Detection Flashlight

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. Features a 20 ft inspection range and 4-hour runtime.

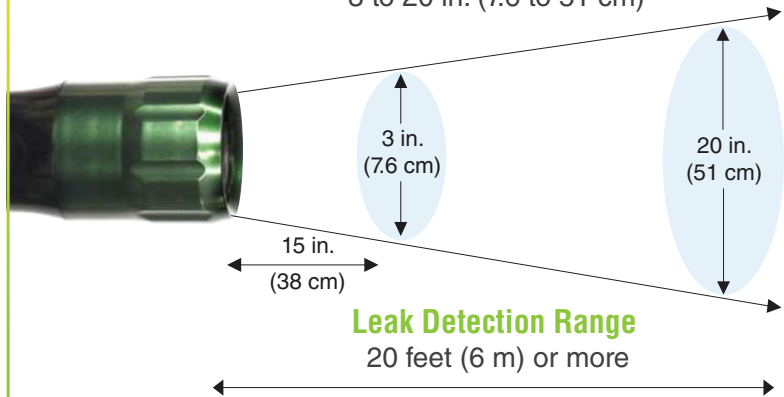
**SPI-LT**

**INCLUDES:**

- 3 AAA batteries
- UV-absorbing glasses
- Belt holster
- Lanyard
- Small carrying case

**Coverage Area**

3 to 20 in. (7.6 to 51 cm)



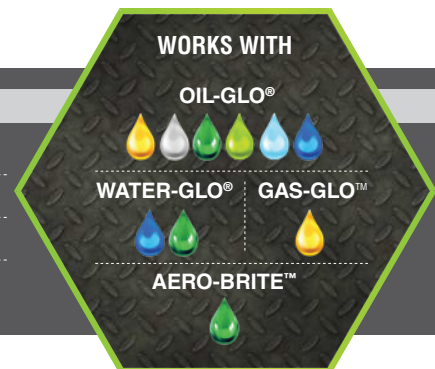
**Leak Detection Range**

20 feet (6 m) or more

**SPECIFICATIONS**

**Light Source:** UV LED  
**Lamp Style:** Cordless Flashlight  
**Lamp Head Diameter:** 1 in (2.54 cm)  
**Length:** 5.5 in (14 cm)

**Weight:** 4.8 oz (0.14 kg)  
**Power Source:** Three "AAA" batteries  
**Run Time:** 4 hours (continuous)



# DIAGNOSTIC



HEAR WHAT YOU NEED TO HEAR!



AUTOMATIC GAIN CONTROL

## Marksman™ II ULTRASONIC DIAGNOSTIC TOOL

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

SPI-MDT



INCLUDES BOTH  
HOLLOW AND SOLID  
PROBE EXTENSIONS

LASER POINTER



- 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-canceling Headphones
- Carrying Case
- Batteries Included

### 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!

# Q&A

GOT QUESTIONS?



## 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.

## Are the dyes **harmful to the system in any way**?

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.

## How long does it take to **find a leak**?

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.



UV MAN  
HAS  
ANSWERS!



## 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.

## 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



SPECTROLINE®  
LEAK DETECTION

# FLUORESCENT LEAK DETECTION TOOLS

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



Step 1

Add dye to the system & let it circulate



Step 2

Scan system with a Spectroline leak detection lamp and see any leaks glow brightly



Continuously circulating - working for you around the clock, **24/7** to quickly identify any future leaks

Have peace of mind you're using the **ultimate leak detection and preventative maintenance** solution in the industry!

## LEAK DETECTION SOLUTIONS FOR ALL INDUSTRIAL FLUID POWER SYSTEMS

Spectroline® produces cutting-edge, high-quality, fluorescent dyes, lamps and diagnostic tools for Industrial systems that can keep your operation safe and production moving forward.



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