

LEAK POINT SENSOR

- ✓ Precise Leak Point Detection
- ✓ No Power Required
- ✓ High Accuracy

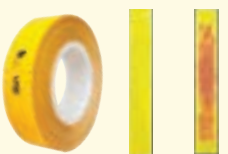


KOREA OCCUPATIONAL
SAFETY & HEALTH AGENCY

- Ministry of the Interior and Safety
Certified Disaster Safety Product
- National Official Quality Certification
- Product Closely Related to Public Safety
- The Only Certified Color-changing Sensor Product in Korea



LPSF-NORMAL [Acidic/Alkaline Substances]



Before
leak

After
leak

- Products for Acidic/Alkaline
Substance Detection
- Acidic: Liquid/Gas Yellow > Red
- Alkaline: Only Liquid Yellow > Green
- Detected Substances: Hydrofluoric acid,
hydrochloric acid, sulfuric acid, nitric acid, etc.

LPSF-GBS [Alkaline Substances]



Before
leak

After
leak

- Product for **Alkaline**
Substance Leak Detection
- Alkaline: Liquid/Gas Yellow > Green
- Detected Substances:
Ammonia, caustic soda, etc.

LPSF-ODS [Organic Compounds]



Before
leak

After
leak

- Product for **Organic**
Substance Leak Detection
- Organic: Only Liquid Yellow > Red
- Detected Substances:
Benzene, toluence, MEK, etc.

LPSF-DDS [DI WATER]



Before
leak

After
leak

- Product for **Di Water** Leak Detection
- Water: Liquid White > Blue
- Detected Substance: Di water, etc.

CHEMICAL-SHIELD [General Use]



- Excellent Chemical Resistance
- Shatter Resistance
- Operating Temperature: 80 °C

CHEMICAL-SHIELD [High Temperature Use]



- Excellent Chemical Resistance
- Shatter Resistance
- Operating Temperature: 250 °C
- Simultaneous Acidic/Alkaline
Substance Leak Detection
- Acidic: Yellow > Red
- Alkaline: Yellow > Green

LPSS-Spray [Acidic/Alkaline Substances]



- Product for Acidic/Alkaline
Substance Leak Detection
- Acidic: Liquid/GAS Yellow > Red
- Alkaline: Only Liquid Yellow > Green
- Can be used in various places such as pipes,
chemical storage tanks, etc.
- Detected Substances: Hydrofluoric acid,
hydrochloric acid, sulfuric acid, nitric acid, etc.

LPSI-INK [Acidic/Alkaline Substances]



- Product for Acidic/Alkaline
Substance Leak Detection
- Acidic: Liquid/GAS Yellow > Red
- Alkaline: Only Liquid Yellow > Green
- Can be used in various places such as floors,
chemical storage tanks, etc.
- Detected Substances: Hydrofluoric acid,
hydrochloric acid, sulfuric acid, nitric acid, etc.
- Dries quickly after painting (30 minutes)

Smart Paper [Refrigerant Oil]



- Product for Air Conditioner
Refrigerant Oil Leak Detection
- Yellow > Red
- Detected Substances:
Refrigerant, oil, organic substances

Coating Paint for Leak Detection [DI WATER]



- Coating Paint for DI Water
Leak Detection
- White > Blue
- Applicable to various places

Clients

Semiconductor/Display	Petrochemical	Public Enterprise/Public Office	Overseas	Others

Application Cases



Color - coded Safety & Site Proected by Colors

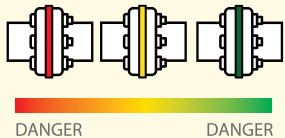


GIFKOREA

The Power of Color

Colors, which influence more than 60% of our vision, are expanding their role as a method of communication and becoming internationally standardized. Colors have the power to make hidden dangers visible and stimulate individual safety awareness. GIF KOREA CO., LTD. is setting the standard by applying "safety colors" in industrial sites and daily life, introducing a new paradigm of "color-coded safety" with standardized guidelines.

Applying "Color" to Hazardous Chemical Leak Points



GIF Korea, a specialized manufacturer of leak detection sensors, is introducing the first color regulations in the hazardous chemical field. We aim to implement color-coded safety in industrial sites, minimizing blind spots in leak detection and ensuring a safer environment.

Safety, Protected by Color

Safety Color Standardization

Colors make safety information easier to remember and help in adhering to safety regulations.

Visual Warning

Colors quickly inform of potential hazards, draw attention, and prevent safety accidents

Safety Information Delivery

Colors clearly convey various safety information, enhancing workers' understanding.

Safety Culture

Safety systems that utilize colors create a safety culture in the workplace and improve safety awareness

Site, Protected by Color

Clear Visibility

Changes in color make it easy for anyone to identify leak points.

Accurate Leak Detection

Accurately pinpointing leak points helps reduce unnecessary costs.

High Accuracy

It is unaffected by the surrounding environment, ensuring no malfunctions.

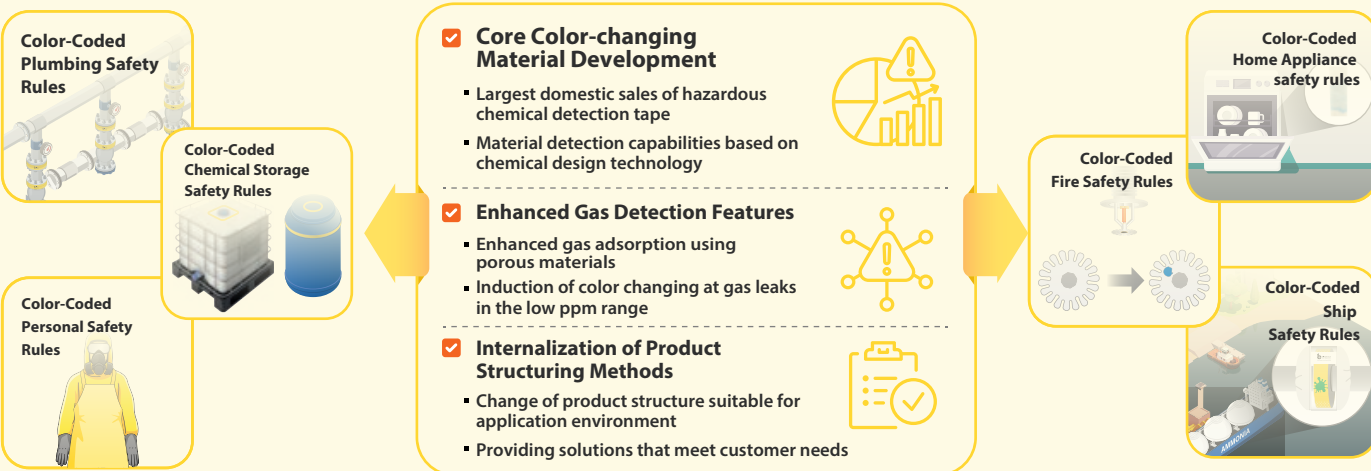
No Power Required

It works even during natural disasters such as power outages and earthquakes, and can detect leaks.

Color	Color Standard	Use	Description	Required Actions
Yellow	10Y 8.5/12	Normal (Safety)	Chemical substance is in safe use	No issues
Red	10R 4/4	LEAK (Danger)	Chemical substance (S/D) leaks and requires action	Check the extent of the leak at the specified point, then perform inspection and safety measures.
Green	10G 4/10	LEAK (Danger)	Chemical substance (NH3) leaks and requires action	

GIF KOREA VISIBLE SENSOR COLOR STANDARD

Color-Coded Safety Rules with GIF Korea

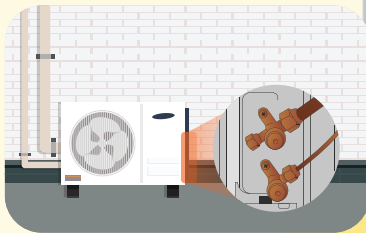


Color-Coded Home Appliance Safety Rules

- Personal protective equipment for handling hazardous chemicals

Application Cases

- Air conditioner refrigerant leak detection sensor
- Dishwasher leak detection coating

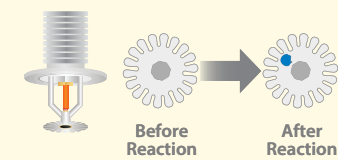


Color-Coded Fire Safety Rules

- Leak detection in fire safety equipment

Application Cases

- Sprinkler deflector leak detection

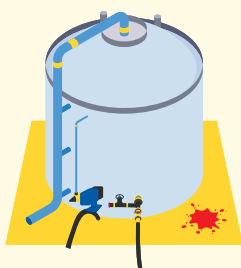


Color-Coded Chemical Tank Safety Rules

- Leak detection in hazardous chemical tanks

Application Cases

- Color-changing paint on the bottom of a hazardous chemical tank
- Color-changing paint on the bottom of a hazardous chemical tank



Color-Coded Chemical Vehicle Safety Rules

- Leak detection in hazardous chemical transport vehicle piping

Application Cases

- Color-changing spray for hazardous chemical transport vehicle piping
- Color-changing spray for chemical transfer pipe flanges and joints



Turning Dangerous Places into Safe Places

Color-Coded Safety Platform



Color-Coded Personal Safety Rules

- Personal protective equipment for handling hazardous chemicals

Application Cases

- Personal safety items: chemical suits, aprons, gloves, shoes, etc.

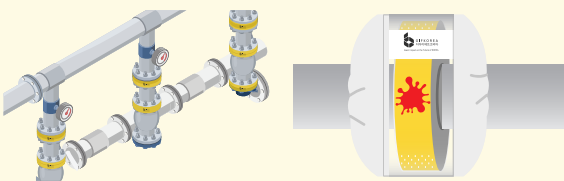


Color-Coded Plumbing Safety Rules

- Hazardous chemical leak detection

Application Cases

- Hazardous chemical transport pipes, flanges, joints, etc.



Color-Coded Chemical Storage Safety Rules

- Leak detection in hazardous chemical storage containers

Application Cases

- Hydrofluoric acid storage container leak detection
- IBC tank leak detection



Color-Coded Ship Safety Rules

- Leak detection of hazardous chemicals on ships

Application Cases

- Hazardous chemical leak detection inside ships(NH3)
- Hazardous chemical transport ship leak detection

