

Visualization of Leaks

Hydrocarbon Liquid and Gas & Various Chemicals





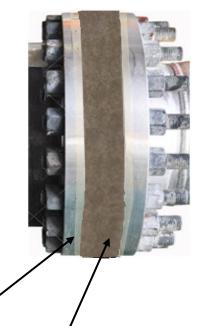




Visualization of Leaking of Hydrocarbon Gas or Liquid

Features

- The color changes (black to purple) occurs by contact with hydro-carbon fume or liquid.
- The time to change the color by hydro-carbon contact takes from a few seconds to few hours.



UV Resistance Clear Tape

Hydro-carbon Leak-Detech Tape

Hydro-carbon Leak-Detech Tape







After Expose to
Hydro-carbon Fume



After Contacted to
Hydro-carbon Liquid



Note: Hydro-carbon is paint thinner in the pictures.



Visualization of Acidic Chemicals



Features

- It has elasticity and can be wound freely around complex shapes.
- It can be fixed simply by pressing against the wound Leak-Detech Tape.
- Adhesives, fasteners, cutting tools are not required.
- · Not sticky.
- It can be re-wrapped if required.

Notes:

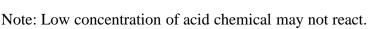
- The color changes typically occur by chemicals less than pH of 2.
- The time to change the color by chemical contact take from a few seconds to few hours.
- Outside in weather, the color may gradually fade over several years, making it difficult to see the color change at the time of leakage. Please change to new Leak-Detech Tape.
- When it is exposed to strong acid (e.g., 60% of Sulfuric acid), the base cloth may be dissolved.



No Leak



- Sulfuric acid (H₂SO₄),
- Nitric acid (HNO₃)
- Hydrochloric acid (HCl)
- Selenic acid (H₂SeO₄)
- Hydroiodic acid (HI)
- Hydrobromic acid (HBr)
- Orthophosphric acid (H₃PO₄)
- Arsenic acid (H₃AsO₄)
- Selenous acid (H₂SeO₃)
- Chrome acid (H₂CrO₄)
- Citric acid (H₃Citrate)
- Hydrofluoric acid (HF)
- Nitrous acid (HNO₂)
- Oxalic acid (C₂H₂O₄)





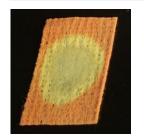
Initial Leak



After Color Change



Please test specific chemicals before application.



10% HCl



H₂SO₄



Oxalic acid

One Roll: 25 mm W x 10 m per Roll

Carrier: Stretchable Polyester Cloth



Visualization of Base Chemicals



Features

- It has elasticity and can be wound freely around complex shapes.
- It can be fixed simply by pressing against the wound Leak-Detech Tape.
- Adhesives, fasteners, cutting tools are not required.
- Not sticky.
- It can be re-wrapped if required.



Sodium Hydroxide (NaOH) 10% to 40% Light Blue → Blue/Black

		Section 1	
	STATE OF	APPELL N	
		120	WINDS N

Ammonia Hydrogen Carbonate NH₄HCO₃ aq. 10%, pH 8.1

Leak Center Color
Surrounding Color
After Dry

White	Wet	Dry
Blue/Navy Blue		
Blue to Black		

White Wet Dry

Blue/Navy
Blue

Light Blue



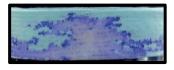
Ammonia Liquid or Gas (NH₃, HH₄) 1% to 28%, pH 14.0 Light Blue → Navy Blue

White	Wet	Dry
Dark Blue/Navy Blue		
Light Blue		



Sodium Hydroxide NaOH aq. 1%, pH 13.4

Blue/Navy Blue	Wet	Dry
White		
Blue to Black		



Polyethylene Amin NH₂ (NH₂CH₂NH)nH 10%, pH 12.5

Blue/Navy Blue	Wet	Dry
White		
Blue to Black		



Sodium Hypochlorite NaClO aq. 6%, pH 13.0

Black	Wet	Dry
Black		
Black		



Hydrogen Peroxide H₂O₂ aq. 3%, pH 5.0

Brown	Wet	Dry
Brown		
Light Brown		

One Roll:

25 mm W x 10 m per Roll

Carrier:

Stretchable Polyester Cloth





USA, Hong Kong, Thailand

Contact:



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