

# ZYGLO Water Washable Penetrants

ZYGLO Water Washable Penetrants are used to check for cracks in a wide range of sensitive applications. Our penetrants fluoresce a greenish-yellow color under ultraviolet radiation. Use black light sources with peak wavelength of 365 nanometers such as MAGNAFLUX ZB-100F Fan-Cooled Black Light.

## ZL-15B Water Washable Fluorescent Penetrant

(Level ½ – Lowest sensitivity)  
Exhibits excellent washability for castings and rough surfaces.  
*Approved Developers:* ZP-4B, ZP-9F, ZP-5B & SKD-S2

Part #:	Container Size:
01-3159-40	5 Gallon Pail
01-3159-30	20 Gallon Drum
01-3159-45	55 Gallon Drum

## ZL-19 Water Washable Fluorescent Penetrant

(Level 1 – Low sensitivity penetrant)  
Higher brightness and sensitivity than ZL-15B  
*Approved Developers:* ZP-4B, ZP-9F, ZP-5B & SKD-S2

Part #:	Container Size:
01-3263-40	5 Gallon Pail
01-3263-30	20 Gallon Drum
01-3263-45	55 Gallon Drum

## ZL-60D Water Washable Fluorescent Penetrant

(Level 2 – Medium Sensitivity)  
Exhibits excellent washability for castings and rough surfaces; and is typically used on castings, forgings, extrusions and rough machined surfaces to find cracks, seams, laps, cold shuts, laminations and porosity.  
*Approved Developers:* ZP-4B, ZP-9F, ZP-5B & SKD-S2

Part #:	Container Size:
01-3272-35	Case of 4 – 1 Gallon Containers
01-3272-40	5 Gallon Pail
01-3272-30	20 Gallon Drum
01-3272-45	55 Gallon Drum

Also available in 16 oz. aerosol cans.

## ZL-67 Water Washable Fluorescent Penetrant

(Level 3 – High Sensitivity)  
Provides an excellent combination of sensitivity/washability and is typically used on critical applications including investment castings, jet engine components, and highly machined surfaces to find cracks, seams and porosity.  
*Approved Developers:* ZP-4B, ZP-9F, ZP-5B & SKD-S2

Part #:	Container Size:
01-3274-35	Case of 4 - 1 Gallon Containers
01-3274-40	5 Gallon Pail
01-3274-30	20 Gallon Drum
01-3274-45	55 Gallon Drum

## ZL-56 Water Washable Fluorescent Penetrant

(Level 4 – Ultra High Sensitivity)  
Ultra-high sensitivity penetrant for critical applications. ZL-56 is a fluorescent, high sensitivity, water washable penetrant. ZL-56 is typically used on smooth, nonporous, highly machined surfaces to find cracks, seams, and scratches.  
*Approved Developers:* ZP-4B, ZP-9F, ZP-5B & SKD-S2

Part #:	Container Size:
01-3267-40	5 Gallon Pail
01-3267-30	20 Gallon Drum
01-3267-45	55 Gallon Drum



# ZYGLO® Post Emulsifiable Fluorescent Penetrants

The ZYGLO post emulsifiable fluorescent penetrants are used for a wide range of sensitive applications and are formulated to be impervious to water to assure against being over washed from defects. The MAGNAFLUX Post Emulsifiable Penetrants require the application of a lipophilic emulsifier or a hydrophilic emulsifier to render it washable with water. All of our penetrants are formulated for rapid separation from water for efficient clean up by coalescer, or charcoal filtration. Each penetrant fluoresces a bright greenish-yellow color under ultraviolet radiation. Use of a black light source, with peak wavelength of 365 nanometers, such as the MAGNAFLUX® ZB-100F Fan-Cooled black light, is recommended. Each penetrant is formulated to produce heat stable fluorescent indications under normal drying conditions (140°F/60° C).

## ZL-2C PE Fluorescent Penetrant

(Level 2 – Medium Sensitivity)

ZL-2C is typically used on castings, forgings, and extrusions, rough and machined surfaces to find cracks, seams, laps, laminations and porosity.

*Approved Developers:* ZP-4B, ZP-9F, ZP-5B, ZP-14A & SKD-S2

*Approved Removers:* ZR-10B, ZE-4B, SKC-S & SKC-HF

Part #:	Container Size:
01-3123-40	5 Gallon Pail
01-3123-30	20 Gallon Drum
01-3123-45	55 Gallon Drum

## ZL-27A PE Fluorescent Penetrant

(Level 3 – High Sensitivity)

ZL-27A is typically used on castings, forgings, and extrusions, rough and machined surfaces to find cracks, seams, laps, laminations and porosity.

*Approved Developers:* ZP-4B, ZP-9F, ZP-5B, ZP-14A & SKD-S2

*Approved Removers:* ZR-10B, ZE-4B, SKC-S & SKC-HF

Part #:	Container Size:
01-3187-35	Case of 4 – 1 Gallon Containers
01-3187-40	5 Gallon Pail
01-3187-30	20 Gallon Drum
01-3187-45	55 Gallon Drum

Also available in 16 oz. aerosol cans.

## ZL-37 PE Fluorescent Penetrant

(Level 4 – Ultra-High Sensitivity)

ZL-37 is typically used on castings, forgings, and extrusions, rough and machined surfaces to find cracks, seams, laps, laminations and porosity.

*Approved Developers:* ZP-4B, ZP-9F, ZP-5B, ZP-14A & SKD-S2

*Approved Removers:* ZR-10B, ZE-4B, SKC-S & SKC-HF

Part #:	Container Size:
01-3188-35	Case of 4 – 1 Gallon Containers
01-3188-40	5 Gallon Pail
01-3188-30	20 Gallon Drum
01-3188-45	55 Gallon Drum

# ZYGLO® Water Base Fluorescent Penetrant

## ZL-4C Water Base Fluorescent Penetrant

ZL-4C is typically used on plastics and ceramics to find cracks. ZL-4C is also used as a leaker penetrant to detect through leaks.

ZL-4C is a fluorescent, water base penetrant. ZL-4C is soluble in water and can be diluted, but is generally used as supplied or from 1:1 to 1:2 in water. ZL-4C contains no petroleum base solvents. ZL-4C fluoresces a greenish-yellow color under ultraviolet radiation of 365 nm, such as supplied by the MAGNAFLUX® ZB-100F fan-cooled black light.

Part #:	Container Size:
01-3137-40	5 Gallon Pail
01-3137-45	55 Gallon Drum

## ZYGLO® Additive

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### ZL-5 Fluorescent Water Additive for Leak Detection

ZL-5 is a dry powder fluorescent organic material used as an additive for the detection of leaks in pressure vessels, storage tanks, radiators and other liquid system containers. ZL-5 is water-soluble and produces fluorescence when using a black light, (such as the MAGNAFLUX® ZB-100F fan cooled black light) at 365 nanometers.

Part #:	Container Size:
01-3141-57	1 lb. Container
01-3141-63	5 lb. Container

## ZYGLO® Developers

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### ZP-4B Dry Powder

ZP-4B is a free-flowing, white, fluffy powder used as a dry powder developer for ZYGLO penetrants. ZP-4B is supplied ready to use. ZP-4B forms a thin film on parts which enables it to enhance indications of ultra fine discontinuities. ZP-4B's high purity allows it to be used in applications demanding purity.

Part #:	Container Size:
01-3328-25	12 – 1 pt Cans
01-3328-69	10 lb. Container
01-3328-75	20 lb. Container

### ZP-5B Water Suspending

ZP-5B is a white powder which is to be dispersed into water. ZP-5B disperses quickly to form an opaque white suspension. Must be continually agitated during use to ensure uniformity of mix as developer will settle out on standing. ZP-5B forms a uniform white coating which enhances fluorescent indications formed by ZYGLO penetrants. At higher concentration, ZP-5B forms an opaque white coating which provides contrasting background for SPOTCHECK indications.

Part #:	Container Size:
01-3341-81	25 lb. Container

### ZP-9F Non-Aqueous

ZP-9F is a ready-to-use suspension of white developing particles in a fast drying solvent. ZP-9F produces an opaque white coating, which provides an excellent contrasting background for SPOTCHECK or ZYGLO penetrant indications. ZP-9F is specially formulated to be low in sulfur and halogens and contains no chlorinated hydrocarbons.

Part #:	Container Size:
01-3354-40	5 Gallon Pail
Also available in 16 oz. aerosol cans.	

### ZP-14A Water Soluble

ZP-14A is a white free-flowing powder, which dissolves in water to form a clear, colorless biodegradable developer solution. ZP-14A is used as a general purpose water-soluble developer for the enhancement of indications formed by ZYGLO penetrants. ZP-14A produces a uniform white porous coating when it dries. The developer film is easily removed in post inspection cleaning by a water spray. Once the developer bath has been made up, no in-use agitation is required to maintain developer uniformity.

Part #:	Container Size:
01-3381-75	20 lb. Container
01-3381-89	50 lb. Container

## ZYGLO® Lipophilic Emulsifier

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### ZE-4B Emulsifier

ZE-4B is a reddish, slightly viscous liquid used for the emulsification of ZYGLO PE penetrants. ZE-4B is a general purpose emulsifier with a moderate rate of action. ZE-4B can be used in open tanks due to its low volatility and high flash point.

Part #:	Container Size:
01-3546-40	5 Gallon Pail
01-3546-30	20 Gallon Drum
01-3546-45	55 Gallon Drum

# ZYGLO® Hydrophilic Emulsifier

## ZR-10B Remover

ZR-10B is a pinkish, slightly viscous liquid. ZR-10B is a 100% active concentrate, which is diluted in water when used as an emulsifier for ZYGLO PE penetrants. ZR-10B is very low in sulfur, chlorine, and sodium content.

Part #:	Container Size:
01-3620-40	5 Gallon Pail
01-3620-30	20 Gallon Drum
01-3620-45	55 Gallon Drum

## ZYGLO® Kits



### NEW ZA-70 Kit (16 Oz.) 115v ZB-100F Black Light

Part #	Includes
600047	ZB-100F Black Light 115v 1 can of ZL-27A PE Fluorescent Penetrant, 1 can of ZP-9F Developer, 2 cans of SKC-S Cleaner, heavy duty wiping cloth, paint marker, Scrubs™ hand towels, portable plastic case and instructions
600045	ZB-100 230v

### ZA-70R (16 Oz.) Refill Kit

Part #	Includes
01-3930-48	2 cans of ZL-27A PE Fluorescent Penetrant, 2 cans ZP-9F Developer, 4 cans of SKC-S Cleaner, Heavy Duty Wiping Cloth, Paint Marker, Scrubs™ Hand Towels, Portable Plastic Case and Instructions.