

## NEO-GLO FWB3C Concentrated Fluorescent Penetrant

FWB3C is a concentrated liquid for preparing water-based, non-flammable, water-washable fluorescent penetrants. Unlike the standard pre-mixed FWB3 product, FWB3C allows for adjusting the dilution ratio with water, enabling users to control the detectability of defect indications.

Typically, water-based products have a drawback of short shelf lives (1–2 years) due to issues such as can rusting or liquid degradation. However, this concentrated liquid comes with a 3-year shelf life, reducing material costs and transportation volume, providing significant cost benefits.

Before use, thoroughly mix and stir the concentrated liquid with water (such as tap water, purified water, or city water). Ensure the specified/desired concentration is achieved using a refractometer before proceeding with inspections.

### ■ FEATURES

- Fluorescent concentrate to be diluted with water.
- Versatile—detectability of defect indications can be adjusted by changing the dilution ratio.
- Achieves low odor, excellent wastewater processability, and superior washability after dilution.
- Ultra-environmentally friendly, compliant with no domestic regulations.

### ■ PROPERTIES

Color	Yellow-green
Odor	Glycol odor
Flash Point	>158°F / > 70°C
Viscosity	5.54 cSt
Fire Service Act	Class 4 and Class 3 petroleum (water-soluble)

### ■ SPECIFICATION CONFORMANCE

\* Please contact us regarding compliance to the latest standards and standards not listed in this TDS.

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## APPLICATIONS

- Castings
- Forgings
- Ceramics
- Plastics
- Large components

## SPECIFICATION

How to use →



NDT Method	Penetrant Testing (PT) / Water-Washable Fluorescent Penetrant
Type	Type I (Fluorescent)
Method	A (water washable)
Sensitivity Level	Equivalent to JIS Z 2343-2 Sensitivity Level 1/2~1
Storage Temperature	40°F~104°F/5°C~40°C
Usage Temperature	50°F~104°F/10°C~40°C
Quality assurance period	3 years from the manufacturing date
Disposal	Dispose empty can in a safe manner in accordance with local/national regulations.

## ADJUSTMENT METHOD

Please ensure proper concentration management using a refractometer. The recommended adjustment method is as follows:

**Measuring Instrument** : Handheld refractometer, such as the ATAGO MASTER-53α (with automatic temperature compensation), measuring range: Brix 0–53.0%.

**Method** : For new solutions, adjust to the specified concentration, measure the refractive index, and convert it to the concentration. For in-use solutions, calculate the concentration from the refractive index and add the required amounts of FWB3C and water as needed.

**Recommended Concentration** : To match the dilution ratio of FWB3, adjust to a solvent / water ratio of 21% / 79% vol/vol (%).

\* For more details, please refer to “Concentration Management of Fluorescent Concentrate FWB3C.

## NEO-GLO FWB3C Concentrated Fluorescent Penetrant

### ■ CONTAINER

Can Type: 3.8 L and 18 L Can, 200 L drum

### ■ SERVICE/CONTACT

Please be sure to read the SDS (Safety Data Sheet) before use.

Please download the SDS from our website or contact our nearest sales office or distributor.

For other inquiries about our products, please contact our nearest sales office.

Contact us →



### ■ PRECAUTIONS FOR USE/HANDLING

- This product is a flammable substance regulated under the Fire Service Act due to its flash point.
- Use a circulation pump or agitator for thorough mixing during agitation.
- To ensure the concentration is properly adjusted, always confirm using your refractometer.
- For dilution, use city water, purified water, tap water, deionized water, or distilled water. Avoid water with uncontrolled impurities, such as well water, as it may cause rust or degradation.
- If diluted below the recommended concentration, dye precipitation or other issues may occur. Conduct regular management checks during use.
- For in-use liquid concentration management and verification of defect indication detectability.
- Manage the concentration using a refractometer.
- Verify defect indication detectability using a JIS Z 2343-3 Type 3 contrast test piece for proper operation and management.
- Product Warranty: While the FWB3C concentrate has a 3-year warranty under the correct storage conditions specified in the SDS, we cannot guarantee the quality of the penetrant solution after adjustment by the customer. Proper concentration management using a refractometer is essential for maintaining and operating the adjusted penetrant solution.