## **Penetrant Classification System**

Type I Type II	Fluorescent Visible (Red)
Method A	Water Removable
Method B	Lipophilic Emulsifier (oil base)
Method C	Solvent Wipe
Method D	Hydrophilic Emulsifier (water base)
Class (1)	Halogenated (nonflammable)
Class (2)	Nonhalogenated (flammable)
Form a	Dry Powder
Form b	Water Soluble
Form c	Water Suspendable
Form d	Nonaqueous
Form e	Nonaqueous
Level 1/2	Ultra Low
Level 1	Low
Level 2	Medium
Level 3	High
Level 4	Ultra High
	Type II  Method A Method B Method C Method D  Class (1) Class (2)  Form a Form b Form c Form d Form e  Level 1/2 Level 1 Level 2 Level 3

## Frequency of In-Use Penetrant Tests – ASTM E-1417

### **Each Shift**

Water Wash Pressure and Temperature

### Daily

Penetrant Contamination
Dry Developer Contamination
Developer Contamination (form b & c)
System Performance
Black Light: Intensity, Reflectors & Filters
Examination Area Cleanliness

#### Week

Emulsifier (hydrophilic) Concentration Water Content (Water Based Penetrant) Aqueous Developer Concentration (b & c) Visible & Black Light Integrity

#### Monthly

Penetrant Water Content (method a only) Emulsifier Water Content (lipophilic only) Emulsifier Removability

### Quarterly

Penetrant Brightness Calibrate Drying Oven

### **Semi-Annually**

Calibrate Light Meter Water Pressure Gage Calibration Water Temperature Gage Calibration

### **As Required**

Penetrant Removability (method a only)
Penetrant Sensitivity

**Note:** Table as it appears is not a complete summary of the required in-use material tests.

## **Sherwin Incorporated Basic Shelf Life Statement**

Shelf life on Sherwin products, starts from ship date.

Aerosol: The shelf life for aerosol cans is three years from the ship date.

Bulk: The shelf life for penetrants, emulsifiers, cleaners/removers and magnetic particle fluids, packed in original sealed containers of, 55 gallon drums, 5 gallon pails, and 1 gallon cans, is five years from the ship date. Products to be used after this date, or in opened containers, may be sent in for testing to ASTM E 1417 or ASTM E 1444, to verify continued product integrity and acceptability for use.

Bulk Powders: The shelf life for dry powder developer (form a) is indefinite, as long as there is no noticeable degradation or contamination. The shelf life for aqueous suspendable developer (form c), water soluble developer (form b), and powdered wetting agents for magnetic particle inspection in unopened containers, is one year.

See complete Shelf Life Statement on our website: www.sherwininc.com



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# SHERWIN INCORPORATED



**Materials Guide** 

www.sherwininc.com



# Sherwin Incorporated provides a full line of products and related services, including:

### **✓** Penetrant Products

Visible & Fluorescent Cleaners & Removers

Emulsifiers Developers

## **✓ Specialized Penetrants**

High Temperature
Water Based

Food Grade - NSF Approved

## **✓** Magnetic Particle Products

White Contrast Paints
Visible & Fluorescent Particles

## **✓** Test Panels

PSM-5 // TAM 146040 Certified PSM-5 // Sherwin Certified

Twin KDS Panels

Twin Nickel Chrome Panels

IWIII NICKEI CHIOIHE Pall

Wash Test Panels, 1 and 2 Cracked Aluminum Blocks

Panel Recertification

Photo and Sizing of Indications

### **✓ Laboratory Services**

In-Use Penetrant Testing
In-Use Mag Particle Testing
Custom Products

**▶** Penetrant Inspection Accessories

## Sherwin Incorporated has 2 locations in the U.S. to serve your penetrant needs:

Sherwin products are available worldwide - see website for details.

### Manufacturing and Laboratory Facility

Sherwin Incorporated - California 5530 Borwick Avenue South Gate, CA 90280 Phone: (562) 861-6324 Fax: (562) 923-8370

Email: sherwin@sherwininc.com

### Distribution Facility

Sherwin Incorporated - Kentucky 1615 Distribution Drive Burlington, KY 41005 Phone: (859) 525-6881 Fax: (859) 525-6887 Email: sherwinky@aol.com

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