

Penetrant Classification System

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

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

<b>Each Shift</b> Water Wash Pressure and Temperature	<b>Monthly</b> Penetrant Water Content (method a only) Emulsifier Water Content (lipophilic only) Emulsifier Removability
<b>Daily</b> Penetrant Contamination Dry Developer Contamination Developer Contamination (form b & c) System Performance Black Light: Intensity, Reflectors & Filters Examination Area Cleanliness	<b>Quarterly</b> Penetrant Brightness Calibrate Drying Oven
<b>Weekly</b> Emulsifier (hydrophilic) Concentration Water Content (Water Based Penetrant) Aqueous Developer Concentration (b & c) Visible & Black Light Integrity	<b>Semi-Annually</b> Calibrate Light Meter Water Pressure Gage Calibration Water Temperature Gage Calibration
	<b>As Required</b> 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](http://www.sherwininc.com)



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Materials Guide

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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  
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

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