

IN-USE PENETRANT MATERIALS TESTING



ASTM E-1417 and MIL-STD-6866 require regular quality control testing of in-use penetrant materials and ASTM E-1444 for magnetic particle solutions. The table below summarizes some of the tests and their prescribed frequency.

Schedule of In-Use Penetrant Materials Testing

	MIL-STD-6866		ASTM E-1417**	
	Paragraph	Frequency	Paragraph	Frequency
Penetrants				
Fluorescent Brightness	5.8.4.1.1	quarterly	7.8.4.1	quarterly
Water Content (Method A only)	5.8.4.1.2	monthly	7.8.2.2	monthly
Removability (Method A only)*	5.8.4.1.3	monthly	7.8.4.2	monthly
Sensitivity*	5.8.4.1.4	monthly	7.8.4.3	weekly
Viscosity		optional		optional
Water Tolerance		optional		optional
Contamination/Separation*		optional	7.8.2.1	daily
Emulsifiers				
Removability (Method B&D)*	5.8.4.2.1	weekly	7.8.4.4	monthly
Water Content (Method B)	5.8.4.2.2	monthly	7.8.2.3	monthly
Magnetic Particle Bath				
Viscosity			5.8.3	AMS 2641
Background Fluorescence			7.1.4.1(2)	AMS 2641

*Removability, Sensitivity, and Contamination are often tested locally by the user.
 **Daily developer testing is also specified, as well as weekly emulsifier concentration.

Annual Penetrant Material Testing Program: Sherwin Incorporated's USAF-approved lab will perform in-use materials tests individually, or as part of an annual, pre-paid program. When pre-paid, costs and record-keeping are reduced, leading to considerable discounts over lab tests purchased individually.

The back of this sheet has information about the annual testing program.

Penetrant users can perform most of the required tests. However, some of the tests require more elaborate equipment and take considerable time to perform, e.g., the brightness and water content tests. The prices for individual tests are as follows.

In-Use Penetrants	
Fluorescent Brightness	\$55.00
Water Content	28.00
Removability	12.00
Sensitivity	6.00
Viscosity	17.00
Water Tolerance	15.00
Contamination/Separation	no charge
In-Use Emulsifiers	
Removability	12.00
Water Content	28.00
Magnetic Particles	
Viscosity	12.00
Background Fluorescence	6.00
Prices for other tests will be quoted on request.	

Sherwin Incorporated's QC Laboratory Service Includes:

1. Providing plastic bottles with labels for forwarding samples.
2. QC reports mailed within three working days after receiving samples. When requested, reports will be faxed without charge.
3. Immediate phone notification of discrepancies.
4. Consultation concerning discrepancies to prevent recurrence.
5. Testing of **all** manufacturers' materials.
6. Providing consultation, materials, equipment and other assistance to help penetrant users establish in-house testing procedures.

Contact Person: Bob Siegel, Laboratory Director

Revised 1 August 2001

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Pricing — Pre-Paid Annual Penetrant Material Testing Program

Annual Method A (Water Removable) Penetrant Testing

40 Tests: 12 water content, 12 removability, 12 sensitivity, 4 brightness

\$662 per Penetrant X _____ = _____
 Annual Savings = \$110/Penetrant # of Penetrants

Annual Method B, C, and D Penetrant Testing

16 Tests: 12 sensitivity, 4 brightness

\$252 per Penetrant To Be Tested X _____ = _____
 Annual Savings = \$40/Penetrant # of Penetrants

Annual Method B Emulsifier Testing

24 tests: 12 water content, 12 removability

\$410 per Emulsifier To Be Tested X _____ = _____
 Annual Savings = \$70/Emulsifier # of Emulsifiers

Annual Method D Emulsifier Testing

12 tests: 12 removability

\$122 per Emulsifier To Be Tested X _____ = _____
 Annual Savings = \$22/Emulsifier # of Emulsifiers

Annual Magnetic Particle Testing

24 tests: 12 viscosity, 12 background fluorescence

\$184 per Solution To Be Tested X _____ = _____
 Annual Savings = \$32/Solution # of Solutions

TOTAL _____

Purchase Agreement — Pre-Paid Annual Penetrant Material Testing Program

Please Print Clearly

Company Name:

QC/Technical Person Contact Information

Name:

Phone:

Mailing Address:

Fax:

e-mail:

Accounting Department Contact Information

Name:

Phone:

Mailing Address:

Fax:

e-mail:

Payment Terms: Credit Card or Invoice

Credit Card: Visa or Mastercard (circle one)

Name on Card:

Card #:

Exp. Date:

Signature

Invoice: Terms: net 30 days

P.O. No.

Date

Signature