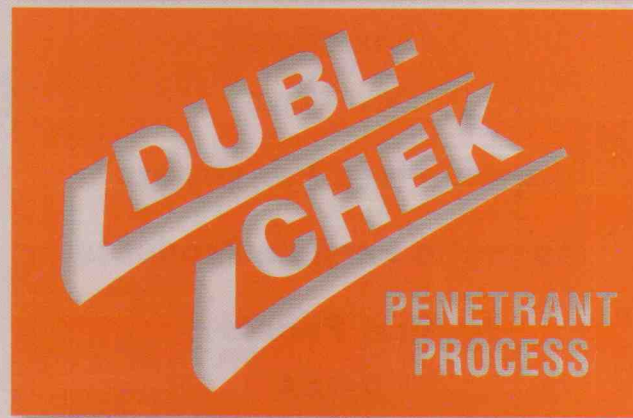


SHERWIN



I N C O R P O R A T E D

PENETRANT ACCESSORIES



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

Penetrant Products

Visible & Fluorescent
Cleaners & Removers
Emulsifiers
Developers

Specialized Penetrants

Magnetic Particle Products

Test Panels

PSM-5
Twin KDS Panels
Panel Recalibration

Laboratory Services

In-Use Testing
Annual Contract Available
UV-A/Visible Meter Calibration

Penetrant Progress Newsletter

PENETRANT ACCESSORIES

WG-1 WASH GUN complete (shown)

A sturdy spray wash gun meeting MIL-I-6866 and ASTM E-1417 requirements. The wash gun is available with or without the full jet nozzle that emits coarse spray without air pressure.

Also: **WG-O** Wash Gun only
WG-N Nozzle only (shown)
WG-R Washer Repair Kit



2C715 WATER TEMPERATURE GAUGE*

Thermometer, dial size 3 inches, temperature range 0 to 250 degrees fahrenheit, stem length 2.5 inches, 1 percentage dual scale accuracy.



CPB94 PRESSURE SPRAYER

Portable, lightweight pressure sprayer for spot application of penetrants, developers, and cleaners. Interchangeable nozzles for mist or pin spray. One quart capacity. Uses shop compressed air. Chrome-plated brass. Measures 9"H x 4"Dia.



10431VP HAND HELD REFRACTOMETER*

Has a built-in temperature compensator to insure accurate readings. Meets MIL-STD-6866 and ASTM E-1417 requirements for weekly testing of hydrophilic emulsifier bath concentration and control of water base penetrants.

Calibration available at Kentucky facility.



244C DEMA INJECTOR

For spraying hydrophilic emulsifier. The emulsifier is drawn into the water stream by the Dema valve, emitting an emulsifier/water spray. The Dema Injector allows the penetrant user to process parts with the hydrophilic method without adding large dip tanks.



N-50 REFRACTOMETER*

Measures hydrophilic emulsifier concentrations. Hand held and equipped with a rubber grip and adjustable eyepiece. Meets MIL-STD-6866 and ASTM E-1417 requirements for weekly testing of hydrophilic emulsifier concentration.

Calibration available at Kentucky facility.



2A645 WATER PRESSURE REGULATOR*

Valve Water Pressure Regulator, brass body, 1/2 FNPT inlet and outlet, 1/4 FNPT in gauge port, adjustable from 3 to 50 PSI, maximum 300 PSI, maximum temperature 140 degrees fahrenheit.



11-555G HYDROMETER*

Monitors aqueous developer concentration and, with the help of a graph, facilitates developer concentration adjustments. Meets the requirements of MIL-STD-6866 and ASTM E-1417 requirements for weekly concentration monitoring.

Sp. Gravity Range 1.00 – 1.07



5WZ19 WATER PRESSURE GAUGE*

For use with water regulators. Standard Pressure Gauge, range 100 PSI, dial size 2 inches, pipe size NPT 1/4 inch, smallest graduation 2 PSI, lower mount.



300 DARKROOM TIMER

Plastic boot over the power switch prevents corrosion from chemicals or water. Easy-to-read numerals on a large 6 1/2 inch diameter face. Numerals, dial and hands are luminous. Setting knob for fast fingertip control. Precision accuracy assured by electric synchronous motor. Buzzer automatically signals end of period. One second to sixty minutes.



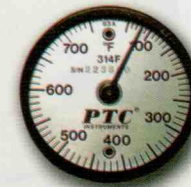
2A606 WATER TEMPERATURE GAUGE*□

Thermometer, dial size 3 inches, temperature range 0 to 250 degrees fahrenheit, stem length 2.5 inches, back connection.



314F SURFACE TEMPERATURE THERMOMETER*

A dual magnet surface temperature thermometer, designed to measure temperatures of many different surfaces. The bimetallic sensor is a specially processed alloy, pre-conditioned and pre-tested for permanent calibration and maximum stability. The thermometer reaches sensing equilibrium within three minutes, and is accurate within 2%.



* Calibration certificate not provided.

PENETRANT ACCESSORIES (CONTINUED)



APRON

Helps protect clothing.
One size fits all.



NORTH VITON GLOVES

Provides excellent protection from a broad range of chemicals, Penetrants and Mag Particle solutions.
Measures 11 inches long.



SCG 100 CAN GUN

Sherwin Incorporated's Spray Can Gun is an essential accessory for penetrant spray can users. The Can Gun precisely controls the flow of penetrants and developer; improves performance; reduces waste and sloppiness; and speeds production. The Can Gun fits any standard spray can and is reusable.



8998 DISPENSER JAR

Flip up cap and press the 1 1/2 inch diagonal dish—pump fills the dish with enough fluid.
4 oz., 2 1/8 inch diameter, 4 3/16 inch overall height, amber color.



RECTANGULAR STAINLESS STEEL BASKET

304 stainless steel, 4 x 4 mesh

Sizes:

181206 - 18"L x 12"W x 6"H, 3" handles
181806 - 18"L x 18"W x 6"H, 3" handles
181812 - 18"L x 18"W x 12"H, 3" handles
201206 - 20"L x 12"W x 6"H, 3" handles
242412 - 24"L x 24"W x 12"H, 3" handles



ROUND STAINLESS STEEL BASKET

304 stainless steel, 4 x 4 mesh

Sizes:

1010 - 10"W x 10"H, 3" handles
1212 - 12"W x 12"H, 3" handles
1512 - 15"W x 12"H, 3" handles



EXPANDED STAINLESS STEEL BASKET

18 ga. metal basket, 303 stainless steel, 1/2 inch mesh openings.

Sizes:

161004 - 16"L x 10"W x 4 1/2"H
211306 - 21"L x 13 1/4"W x 6"H
241306 - 24"L x 13 1/4"W x 6"H



300D RINSE WATER MANAGEMENT SYSTEM

State-of-the-art ozone injection technology which is designed to breakdown the hydrocarbons and greases of your penetrant waste water to levels low enough to allow you to go directly to drain. Converts the petroleum hydrocarbons to H₂O and CO₂ and destroys the fluorescent dye in the penetrant wastewater. **No** oil-filled filters to replace and **no** hazardous waste to dispose of. Quiet and odorless.

BLACK LIGHTS & ACCESSORIES



SB-100P SPECTROLITE HAND-HELD BLACK LIGHT

Super-high ultraviolet lamp with transformer base. 100-watt. Stay-cool handle. Eight-foot cord. Produces 4,800 μ W/cm² at 15 inches.
Replacement Bulb #100S



BIB-150P SPECTROLITE BLACK LIGHT

Super-high ultraviolet lamp. 150-watt Built-In-Ballast™ bulb eliminates the need for a heavy, external transformer. Lightweight design. Concentrated spot bulb. Eight-foot power cord. Produces 6,000 μ W/cm² at 15 inches.
Replacement Bulb #BLE-150CS

BLACK LIGHTS & ACCESSORIES (CONTINUED)

FC-100 SPECTROLINE BLACK LIGHT

Built-in fan reduces running temperatures and allows faster and easier restarting of lamp. Transformer based, 100-watts. Eight-foot cord. Produces 5,000 $\mu\text{W}/\text{cm}^2$ at 15 inches.

Replacement bulb #100S



Maxima 3500 SPECTROLINE ULTRA-HIGH INTENSITY BLACK LIGHT

Micro discharge light (MDL) technology produces a steady-state UV-A intensity of 60,000 $\mu\text{W}/\text{cm}^2$ at 15 inches—*up to 10 times* the output of conventional HID inspection lamps. Exposes even the smallest defects, resulting in a more accurate inspection.

Total weight 6.1 lbs. Instant-on eliminates waiting. Replacement bulb #BLE-35RA



REPLACEMENT ULTRAVIOLET BULBS & FILTERS

100S REPLACEMENT 100-WATT BULB AD-MEDIUM BASE (Larger Base)

Replacement spot bulb for use on Spectroline SB-100P and FC100.

Also used on UVP Inc., B-100A & all B-100 lamps.



2F958 REPLACEMENT UV FILTER LENS

For use on Spectroline SP100-P, BIB-150P, FC-100 and ML-3500.

Also, Magnaflux ZB 100, ZB100F and UVP, all models.



100S/M REPLACEMENT BULB MEDIUM BASE (Standard Lamp Base)

Also used on:

Gould-Bass (Ardrox) 1025 & 1040M

Magnaflux ZB-100, ZB23, ZB24, ZB26 & ZB27.

BLE-150CS REPLACEMENT BULB (Self-Ballasted)

For use on:

Spectroline BIB-150

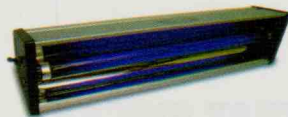
Gould-Bass (Ardrox) #1010



SPECTROLINE BLACK LIGHT BENCH LAMPS

X-15A FLUORESCENT LAMP

Single 15-watt lamp 4.5 x 18.75 x 3.5 inches that produces 1250 $\mu\text{W}/\text{cm}^2$ at 12 inches.



BLE-1800B Replacement Tube

XX-15A FLUORESCENT LAMP

Two 15-watt BLB tubes 4.5 x 18.75 x 3.5 inches that produce 1600 $\mu\text{W}/\text{cm}^2$ at 12 inches.



BLE-1800B Replacement Tube

X-40 FLUORESCENT LAMP

Single 40-watt lamp 6 x 49 x 4 inches that produces 1500 $\mu\text{W}/\text{cm}^2$ at 12 inches.



BLE-7900B Replacement Tube

40-watt four-foot tube (long wave)

XX-40 FLUORESCENT LAMP

Two 40-watt BLB tubes 6 x 49 x 4 inches that produce 1,570 $\mu\text{W}/\text{cm}^2$ at 12 inches.



BLE-7900B Replacement Tube

40-watt four-foot tube (long wave)

BLACK LIGHT METERS



DSE-2000A VISIBLE AND UV DIGITAL METER

Designed to measure long wave ultra violet radiation (black light) in the range of 320 to 380nm, with an accuracy of $\pm 5\%$. Visible Light 380-760 nm $\pm 5\%$.

Recalibration available at Kentucky facility.



DM-365XA ULTRA VIOLET RADIOMETER

Provides unmatched overall accuracy of better than $\pm 5\%$, traceable to NIST. Complies with both MIL and ASTM standards. Easy to read LED display. Water/Liquid-resistant.

Recalibration available at Kentucky facility.



J-221 BLACK LIGHT METER

An inexpensive meter designed to measure overall black light intensity between 300nm and 400nm with a peak sensitivity at 365nm. The J-221 is supplied with a sensor cell, a four-foot extension cord for the sensor cell, reduction screen, contrast filter, certification report, and instructions.

Filter Contrast Shield

Recalibration available at Kentucky facility.

EYE PROTECTION



UVS-30 SPECTROLINE SPECTACLES

Protects eyes from exposure to sporadic, low-intensity ultraviolet sources. The well-proportioned frames fit easily over regular prescription glasses.



UVF-80 SPECTROLINE FACE SHIELD

Provides eye protection from exposure to extended or high-intensity ultraviolet sources. Meets both ANSI Specification Z87.1 for safety eye wear and OSHA Standard 1910.133 for eye and face protection.

Adjusts to fit all head sizes.



UVG-50 SPECTROLINE GOGGLES

Protects eyes from exposure to extended or high-intensity ultraviolet sources. Meets both ANSI Specification Z87.1 for safety eye wear and OSHA Standard 1910.133 for eye protection. Adjustable, well proportioned frames fit easily over regular prescription glasses.

PENETRANT TEST PIECES



SHERWIN PSM-5 PENETRANT SYSTEM MONITOR PANEL

A stainless steel panel, 0.090 inch thick, and measuring 4 x 6 inches. A chrome-plated strip runs the length of one side of the panel. Five crack centers are evenly spaced in the chrome plating in order of magnitude; the largest is easily visible with low-sensitivity penetrants, while the smallest is difficult to observe even with high-sensitivity materials.

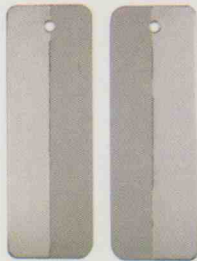
Adjacent to the chrome-plated section is a grit-blasted area of "medium roughness" to judge penetrant wash characteristics.

The **PSM-5 Panel** comes in two versions. One version **TAM #146040-1** has a polished-chrome strip and a grit-blasted side used for background analysis. The other version **TAM #146040-2** has the polished-chrome strip lightly grit blasted in order to dull the surface. Both versions are manufactured to the Pratt & Whitney TAM #146040 specification.

PENETRANT TEST PIECES (CONTINUED)

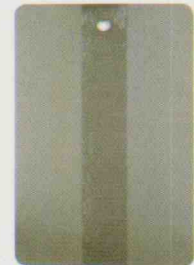
SHERWIN TWIN KDS PANELS

A pair of nearly identical panels measuring 2 x 6 inches and 0.090 inch thick with matching crack patterns. Being rugged, Sherwin Twin KDS Panels may be used to satisfy MIL-STD-6866 and ASTM E-1417 requirements for daily system checks. And, having matching cracks of known sizes, the panels may be used to compare penetrant performance.



WTP-1 SHERWIN WASH TEST PANEL

A stainless steel panel measuring 4 x 6 inches and 0.090 inch thick with two parallel, "medium rough" strips, each 6 x 1 1/2 inches separated by a smooth 1 inch strip. The wash panel is used to meet monthly removability testing required by MIL-STD-6866 and ASTM E-1417.



WTP-2 SHERWIN WASH TEST PANEL

The 1.5 x 2 inch panel is made from 16 gauge 301 or 302 stainless steel by grit blasting with 80 mesh aluminum oxide grit and 60 psi of air pressure. The roughened surface that is produced is free of scratches and blemishes. This panel is used to run removability tests, in a laboratory setting.



Twin NiCr SENSITIVITY PANELS

A set of two panels, each measuring 3.875 x 1.875 inches (100 x 35mm), sheared from the same stock with matching crack patterns. Makes simultaneous comparison of two penetrant batches practical. Specify crack sizes of 10µm, 20µm, 30µm, and 50µm.



KC-KIT KLEEN CHEK Q-PON TESTING KIT

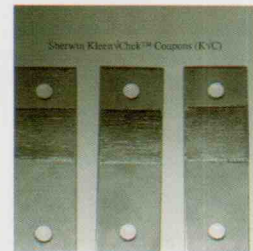
Cleaning system monitor helps assure that parts are thoroughly clean and ready to receive penetrant. Nickel-plated coupons with induced cracks to which is applied a soil having a fluorescent tracer. Kit contains four Q-pons and three bottles of soil.



KLEEN CHEK Q-PONS

Replacement coupons for Kleen Chek Testing Kit. Nickel-plated coupons with induced cracks to which is applied a soil having a fluorescent tracer. Each coupon measures 1 x 3 inches.

- KC-3 3 Q-pons
- KC-6 6 Q-pons
- KC-12 12 Q-pons



CAB CRACKED ALUMINUM BLOCK (or "Penetrant Comparator")

Pressure Code, Section V & III, MIL-I-25135 and AMS-2644. The cracked aluminum block is made from SB-211 Type 2024 aluminum, rolled 3/8 inch thick with dimensions of 2 x 3 inches. A notch separates the block's two sides to facilitate side-by-side comparisons.



FC-1 FLUORESCENT COMPARATOR

A plastic ruler with linear and circular fluorescent marks in inches for flaw dimension comparison under UV light. The tool measures graded flaw markings from .005 to .125 inches.

General purpose model.

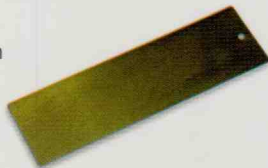


ADP-1 PANEL FOR AQUEOUS DEVELOPER

Aqueous developer check panel made from aluminum.

Measures 3 x 10 inches.

ASTM E-1417 (Sec. 7.8.2.5).



FC-3 FLUORESCENT COMPARATOR (TAM #135273)

A plastic ruler with linear and circular fluorescent marks in inches and millimeters for flaw dimension comparison under UV light. The tool measures graded flaw markings from .010 to .180 inches (.2 to 4.6mm).

Pratt-Whitney model.

FC-13 FLAW DIMENSION TOOL (TAM #190466A)

Plastic swing-away keys, tapered and angled for tight radius comparisons. Linear and circular fluorescent marks in inches for flaw dimension comparison under UV light. The tool measures graded flaw markings from .010 to .180 inches.

Pratt-Whitney model.



FC-4 FLUORESCENT COMPARATOR (G.E.)

A plastic ruler with linear and circular fluorescent marks in inches for flaw dimension comparison under UV light. The tool measures graded flaw markings from .005 to .125 inches.

General Electric model.

SHERWIN
INCORPORATED

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