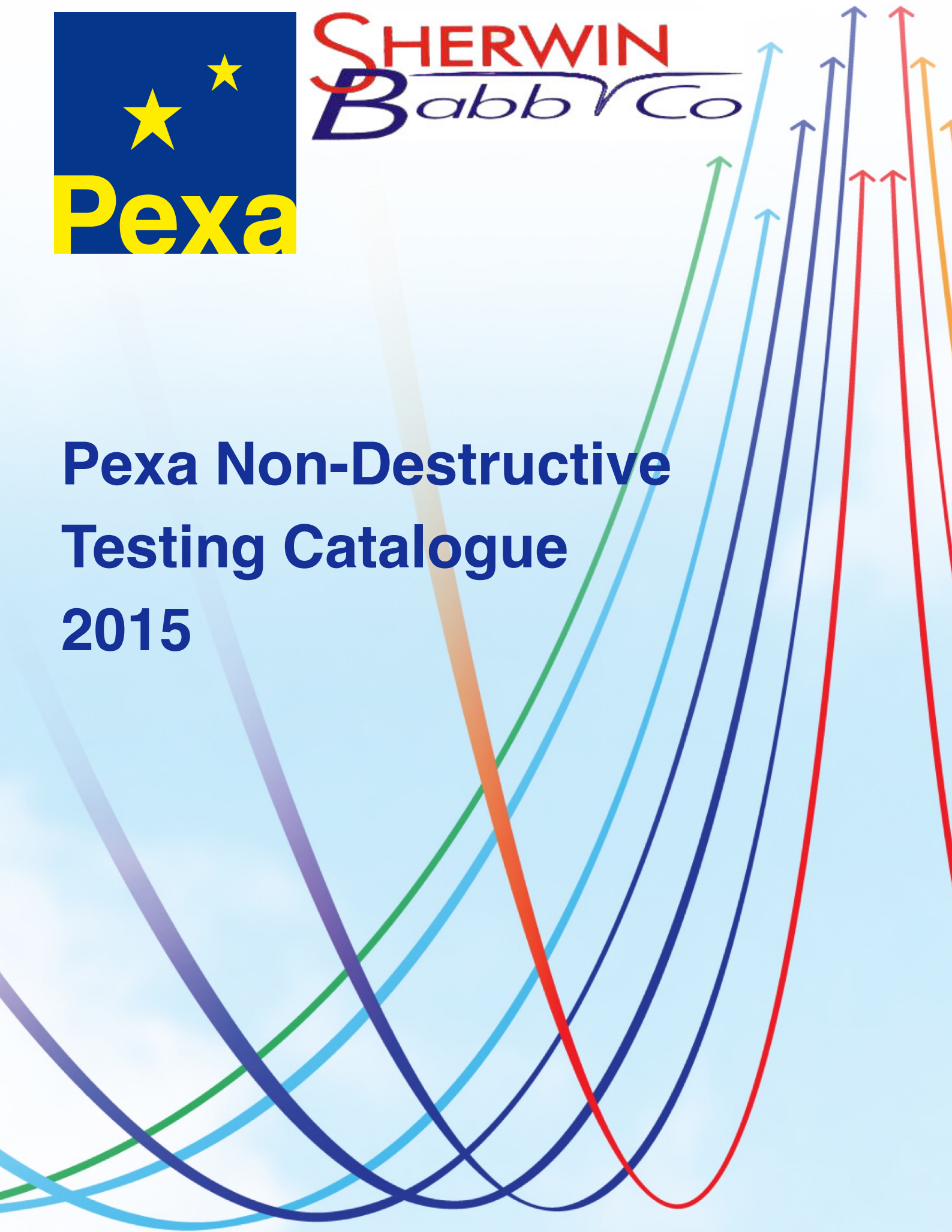




SHERWIN
Babb & Co

Pexa Non-Destructive Testing Catalogue 2015





Water based

EFX-01 Fluorescent penetrant

Features:

Synthetic and biodegradable

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

WB-11E equivalent to Level ½, water based

Features:

Ways to use: can be used without dilution or up to 50% in volume dilution.

Decreases shipping costs.

Packing:

- ◆ Barrel of : 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

WB-100 Lev. 1 water based (ready to use)

Features:

First approved water based Lev.1 AMS 2644

Resists overwashing.

Exists in concentrated formula to be diluted: **WB-100C**

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

WB-200 / WB-200 A Lev. 2 water based

Features:

First approved water based Lev.2 AMS 2644

Resists overwashing.

Exists in concentrated formula to be diluted: **WB-200C**

Packing :

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

LEAK DETECTOR:

DFA200A & DFA 77 water based

Features:

Ready to use water based formula, for leak detection.

DFA 77: metal sheets manufacturing (transformers...). Very low viscosity, antifoam treatment.

DFA 200A : metal manufacturers & welding industry

Packing :

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters (only for DFA 200A)
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

Post emulsified

RC-29 Lev. 1 post-emulsified

Features:

This level 1 post emulsified fluorescent penetrant dipped has a very low viscosity. This presents a great advantage when parts are dipped, because it ensure low penetrant consumption. The pre-rinse step is also greatly facilitated. The fine layer of penetrant to be emulsified remaining on the part will require only a small amount of emulsifier ER-83A ou ER-83B

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



RC-50 Lev. 2 post-emulsified

Features:

Low viscosity, this penetrant is easily implemented; easy pre-rinse step, few generated effluents.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



RC-65 Lev. 3 post-emulsified

Features: Low viscosity, also exists in aerosol

Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Container 1000 liters

RC-77 Lev. 4 post-emulsified

Features: also exists in aerosol

The reference for establishing the level 4 from MIL-I-25135 rev D (AMS 2644, QPL 1)

Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



RC-88 Lev. 4 post-emulsified

Features: Specially designed product for application in laboratory, R&D, other uses requiring a very high sensitivity.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



Pre emulsied

HM-3A Lev. 2 pre-emulsified.



Features:

The HM-3A is popular in the aeronautics sector.
Heavily loaded with optical brightener: indications are very bright, color yellow-green. Very low noise, high report contrast, low viscosity: low consumption of HM-3A in comparison to penetrant of the same level, but more viscous, leads to economies in water treatment, resistant to overwash

Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Container 1000 liters



HM-406 Lev. 2 pre-emulsified.

Features:

Level HIGH as per PRATT & WHITNEY specifications.
Slightly more sensible than HM3A.



Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Container 1000 liters



HM-440 Lev. 2 pre-emulsified.

Features:

New level 2 fluorescent penetrant, yellow-green colour, the first biodegradable penetrant with low viscosity (unlike usual biodegradable penetrant, particularly suitable for dipping tanks (few induced consumption, high rate of recovery from dripping).

Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Container 1000 liters

Color Perfect

HM-602 Lev. 2 (+) pre-emulsified.

Features:

Level 2 fluorescent penetrant, ColorPerfect yellow-green colour, this penetrant shows the excellent properties of the Sherwin's HM6xx range: undisturbed by washing, offers a 2 + sensitivity with the advantage of biodegradability!

Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Container 1000 liters



HM-412 Lev. 2 (++) pre-emulsified.

Features:

An ultimate level 2, yellow-green colour; at the border of level 3; selection criterion: titanium castings, to finding small cracks on both sides as well on the raw parts on the machined ones.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Container 1000 liters

HM-430 Lev. 3 pre-emulsified.

Features:

Low background

Resistance to over-wash 2nd generation

Optimised colorimetry. Competitive price.

The HM-430 is an excellent Level 3 penetrant, directly water washable.

Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Container 1000 liters

Color Perfect



HM-604 & 607 Lev. 3 pre-emulsified.

Features:

Slightly more sensible than HM-604.

Not petroleum based, a biodegradable synthetic base that facilitates (under certain circumstances) the release and / or treatment of effluents.

Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Container 1000 liters



HM-704 & 707 Lev. 4 pre-emulsified.

Features:

Synthetic basis, high biodegradability

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

Developers

D-90G dry developer AMS 2644

Features:

Dry developer powder (for fluorescent penetrant testing only). D-90G works excellently in fog tray, highly tolerant to moisture.

Because of its geometry and size, this developer is fast.

Is fluid enough not to clutter the inspection surface. The information disclosed is lifted and resists to brutal blow & too pronounced dipping of parts into developer tank. This powder is easily suspended and resists separation.

Electrostatic sprayer does not put any problem.

Packing:

- ◆ Bucket of 1 kg (approx. 10 L) and jar of 100g.
- ◆ Aerosol 250 ml.



D-100 wet developer AMS 2644

Features:

Extremely white, intense appearance. Works well with the DP-55. Develops quickly with sharp indications. Comes with standard nozzles for aerosol.

Packing:

- ◆ Aerosols 300 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters



Emulsifiers

ER-83A Emulsifier.

Features:

Dilution from 0 to 30% in water.

Emulsifier surface effect without effect of solvation

ER-83 A is a mild hydrophilic emulsifier.

Low risk of over-emulsification.

ER-83 A is usable on the series of penetrating emulsion to post-RC-XX

Packing:

- ◆ Aerosol diluted to 5%, of 250 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

ER-83B

Features:

Similar to ER-83A in features and performance. Free of alkyl phenol ethoxylates (APE). Enhanced anti-corrosion action.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

ER-83C

Features:

Alkyl phenol ethoxylates (APE) free and hydrophilic.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters

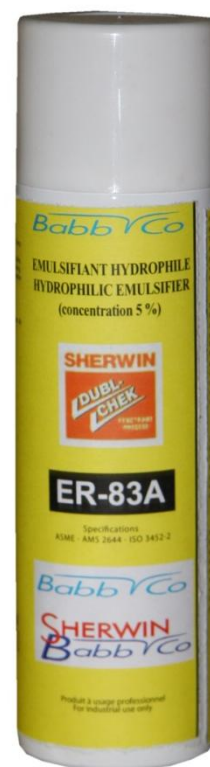
ER-85 Emulsifier.

Features:

Lipophilic emulsifier, to be used pure, only by dipping.

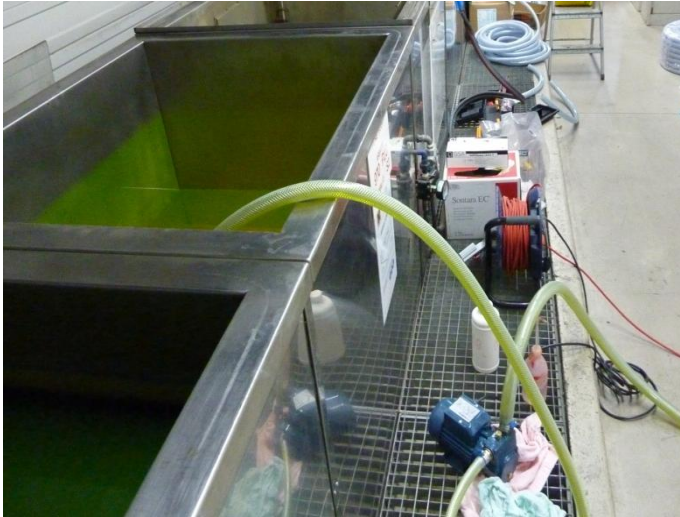
Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



Tank filling, penetrant line cleaning and maintenance:

- Reference Photos available for free
- Draining / filling / tank cleaning services
- We provide the equipment for different operations to be performed (containers, pumps, wipes...).



Red Dye penetrants

DP-55 Lev. 2 as per ISO 3452 ; AMS 2644

Features:

High contrast
Overwash resistant
Gel R 2nd generation
Rapid penetrant testing with D-100
Clear indications with D-100.

Packing:

- ◆ Aerosols 300 mL, 400mL Co², 500mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters
- ◆ Totes 1000 liters



PR-25 Lev. 2 ISO 3452:

Features:

Ideal colorimetry, bicolor.
Low cost.
The PR-25 is a classical red dye penetrant.
To be used with the R 60 developer. It offers good rinsability,
resists overwashing.

Packing:

- ◆ Aerosols 500 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



PR-27 Lev. 1 ISO 3452:

Features:

Purplish red penetrant, level 1, for penetrant testing that does not require a level 2.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



B-305 cold weather penetrant

Features:

B-305 has good penetrating properties at low temperatures. Not recommended when ice might be present in discontinuity.

Important note:

The penetrant is colorless or slightly tinted to the application. It stains during the process.

Removal of excess penetrant: cloth moistened with N 120 (no N106 A). Use with developer D-106.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters

DP-51 Red Penetrant. Level II

Features:

Classical penetrant.

Packing:

- ◆ Aerosols 500 mL
- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



DPR-256 :

Features:

Combined three-dye offering good rinsability, sensitivity Level 2, very little background, reduced effluent, enable to charcoal treatment.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters
- ◆ Drums of 200 liters



« Drastic reduction in washing time and volume of effluent ».

EFX-R02:

Features:

Whatever the quality of the light used for the penetrant testing (warm, cold, intermediate or natural)

The three-dye formulation offers a constant contrast, much appreciated.

Biodegradable penetrant.

Packing:

- ◆ Barrel of : 1 liter, 5 liter, 10 liters, 25 liters



The Thixotropics

HM- 3A 1 THIXO. similar LEV 3.

Features:

Penetrant in gel.

The HM-3A1 Thixo minimizes penetrant run off during FPI on site. Also used for flatness check (valve seals). Enhanced fluorescence compared to the old HM-3A Thixo; HM-3A 1 Thixo provides more contrast and easily interpretable indications.

Packing:

- ♦ Jar of: 100mL, 0.5 Liters, 2.5 Liters



DP-55 THIXO

Features:

The DP-55 is a gel-form penetrant.

It has the same characteristics of detection as the liquid DP-55 penetrant.

Use for very local application, or to avoid run off..

Remove penetrant with a sponge soaked in water or a cloth dampened with N106A.

Use with a non-aqueous wet developer (D100).

Packing:

- ♦ Canisters of: 0.5 Liters, 2.5 Liters



BLEU PR Penetrant Thixotropique

Features:

Gel -form penetrant

Blue PR at the request of EDF for flatness check of valves.

Due to its thixotropic properties (variable viscosity), it is easy to apply, dense in color, it provides easy reading.

It can also be used as a penetrant (see DP-55 thixo).

Packing:

- ♦ Canister of: 0.1 Liter, 2.5 Liters



High and Low Temperatures

High Temperature :

PRT-23 E

Features:

Usable from 0 to 200°C

Designed for use at high temperatures

PRT 23E can be used from room temperature to 200°C,

For use between welding operations, during pre heating or post heating.

The High Temperature penetrant testing saves time.

At 200°C, the penetration time is shortened to a few dozen secondes.

Packing :

- ◆ Aerosol 300 mL



NT-101B Cleaner

Features:

Removal agent for excess high temperature penetrant.

NT 101B is used with a moistened cloth to remove excess

of PRT 23E penetrant at high temperature, when the N 106A

becomes too volatile. Do not spray the NT 101B directly on the part.

Packing :

- ◆ Aerosol 300 mL



Low temperatures :

LTP-82

Features:

Red penetrant removable with solvent, Type 2 Method C level 2

(In accordance with AMS 2644 and ISO 3452-2 and -6) for detecting grooved gaps, at temperature between +10°C and -30°C.

Packing:

- ◆ Aerosol 300 mL

Reminder : use with D-106 developer.

D-106 White Developer

Features:

Fast developer

Special cold or wet weather

D-106 is a wet non-aqueous fast drying developer.

Its average particle size makes it a very versatile developer

D-106 is preferred when the temperature

is lower than 12°C.

Packing :

- ◆ Aerosol 300mL
- ◆ Barrel of : 5 liters, 10 liters.

Degreaser Cleaners/Emulsifiers

N-120 Degreaser

Features:

Nuclear and various use (PMUC).

Complex formulation degreaser for:

- Removing large amounts of contaminants
- Evaporates quickly from cracks

Packing :

- ◆ Aerosol 300 mL / 400mL CO₂
- ◆ Barrel of : 1 liter, 5 liters, 10 liters, 25 liters
- ◆ Kegs of 60 litres
- ◆ Drums of 200 liters



N 106A Cleaner Remover

Features:

Nuclear and various use (PMUC) as penetrant removal agent.

N 106 A:

- removes excess of penetrant on surface without water
- minimizes background.

Packing :

- ◆ Aerosol 300 mL
- ◆ Barrel of : 1 liter, 5 liters, 10 liters, 25 liters
- ◆ Kegs of 60 litres
- ◆ Drums of 200 liters



DR-60 Cleaner Remover

Features:

AMS 2644 Aeronautical use

Packing :

- ◆ Aerosol 400 mL
- ◆ Barrel of : 1 liter, 5 liters, 10 liters
- ◆ Kegs of 60 litres
- ◆ Drums of 200 liters



DR-62 Degreaser / Cleaner

Features:

AMS 2644

The DR-62 is a fast evaporating solvent, QPL AMS 2644 approved for aerospace. Eliminates various pollutants, water and other contaminants before the penetration application. The DR-62 is also suitable for wiping during penetrant testing.

Packing :

- ◆ Aerosol 400 mL
- ◆ Barrel of : 1 liter, 5 liters, 10 liters
- ◆ Kegs of 60 litres
- ◆ Drums of 200 liters



Developers

D-90G dry developer. AMS 2644

Features :

Dry developer powder (for fluorescent penetrant testing only).

D-90G works well in fog tray with a high tolerance to moisture.

Its geometry and size make this powder:

- developing promptly. Is fluid enough not to clutter the surface to be developed & inspected. The information disclosed is lifted and resists to brutal blow & too pronounced dipping of parts into developer tank.

This powder is easily suspended and resists separation

Acceptable for electrostatic spraying

Packing :

- ◆ Buckets of 1 kg (approx. 10 L) and jars of 100g.
- ◆ Aerosol 250 ml.



D-100 wet developer. AMS 2644

Features :

Very white coating, quick developing with DP-55

Improved sharpness with DP-55.

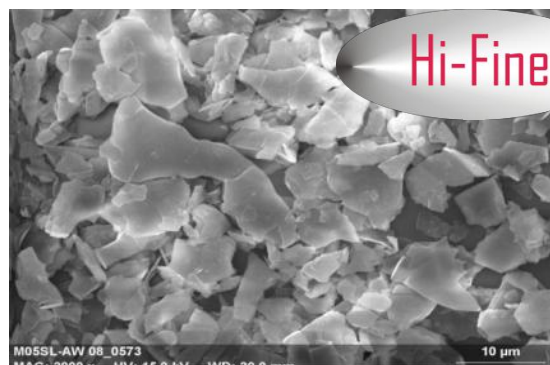
Smooth coating DP-55/D-100 process is reliable and reproducible.

The specific granulometry (see photo by electron microscope)

and the quality of components are outstanding: the wet T-shirt effect at application (or re-application) makes the deposited layer translucent for better proportioning of thickness.

Packing :

- ◆ Aerosol 300 ml, 500 ml.
- ◆ Barrel of : 1 liter, 5 liters, 10 liters, 25 liters.
- ◆ Kegs of 60 liters.
- ◆ Drums of 200 liters.



RT-71 Developer High Temperature



Features :

Perfect for use at high temperature.

RT- 71 is a high temperature developer whose the drying time is suitable for a penetrant testing on part from 120 to 200°C. Beyond 200°C : it dries too quickly, below: it dries too slowly, Speed drying by blowing warm air. Detection time diminishes as part temperature increases. At 200°C, detection no more than a few seconds.

Packing :

- ◆ Aerosol 300 mL



R-60 White Developer

Features :

Low cost.

Versatile developer.

R-60 is a versatile non-aqueous wet developer.

It performs well with the whole Babbco range of developers.

Packing :

- ◆ Aerosol 500mL
- ◆ Barrel of : 1 liter, 5 liters, 10 liters, 25 liters
- ◆ Kegs of 60 liters
- ◆ Drums of 200 liters



D-106 White Developer Low Temperature

Features :

Fast developer

For cold or humid weather

D-106 is a non-aqueous wet developer; fast drying.

Its average granulometry makes it a very versatile developer.

D-106 is satisfactory for use at temperatures above 12°C.

Packing :

- ◆ Aerosol 300mL
- ◆ Barrel of : 5 liters, 10 liters.





Various products and services

CH N 106A Cleaner emulsifier packed in wipes :

Features :

Practical :

- Replace barrels of solvent with risk of spills and fire.
- Reduce of VOC and waste.

To remove excess penetrant without water before developer step.

The wipes impregnated in a reproductive manner avoid too much or too few moistened rags that qui alter the final result. With CH N 106A the removal of the excess of penetrant is much better controlled.



CH N 120 Solvent packed in wipes :

Features :

Perfect for small local decontamination.



IPA 85.15

Features :

Non fluffy and « non-woven » wipes, packed in aluminum bags each containing 100 wipes.

Pre-impregnated with 85 % of isopropyl alcohol and 15 % of water in order to control the speed of evaporation. These wipes enable the reduction of the volume of waste compared to the use of barrels and rags. They are very efficient to clean various surfaces and allow a nuclear & biological decontamination.

Dry wipes :

Features : SOCOWIPES

Perfect for wiping during the penetrant testing.

An alternative to cloth or paper, it is a non-woven material made of polyester /cellulose. Wet, dry or moistened, they are more versatile than cloth, more hard-wearing and long-lasting than paper and economical.

Manufactured under strict control, they ensure a regular wiping quality, a standard size and a practical packing.



Products for waste water treatment



Activated carbon :

CA 30:

Features:

ACTIVATED CARBON in granular form prepared from coal, peat, etc..., activated with steam at high temperature.

Highly recommended for all liquid phase process for purification and discoloration of penetrant testing water effluent.

Packing :

- ◆ Drums of 25 Kg

CA-270 :

Features:

ACTIVATED CARBON in granular form prepared from pine wood by chemical activation.

This coal is particularly recommended for the treatment of aqueous effluents from penetrating pre-emulsified.

Packing :

- ◆ Drums of 14,5 Kg

FSP-3 Flocculant splitter of penetrant :

Features :

Flocculant for polluted water polluted by organic products, such as penetrant products.

Reduces consumption of activated carbon.

Stabilizes pollutants in sludge, and generally allows their disposal in landfills of class 1 (household waste). There is no release by leaching.

Packing :

- ◆ Bags of 25Kg



CFF-2000 Special ceramic penetrant:

Features:

Fluorescent product for locating cracks in porous bodies such as sanitary not enameled, electrical insulators, sintered metals, porcelain. CFF-2000 can be safely used on ceramics and will be fully pyrolyzed in the furnace.

Packing :

Barrel of : 10 liters.

Treatment of surfaces before and after NDT :

Refer to the appropriate offer:



aerochemicals

www.aerochemicals.com



B-50 Antibacteria

Features : Powerful biocide, used in the water treatment
Installation of penetrant testing, in the bins of emulsifiers,
but also for many other cases.

Packing :

- ◆ Barrel of 1 liter
- ◆ Barrel of 5 liters

DB-31 Antifoam :

Features : siliconized.

Packing :

- ◆ Barrel of 1 liter

EM-3 Additive for water treatment :

Features :

Usable in hot US tank.

Intended to help absorption at post emulsion on active charcoals.

Packing :

- ◆ Barrel of 1 liter
- ◆ Barrel of 5 liters.
- ◆ Barrel of 10 liters.

FOR -78 Antibacterial for water treatment:

Features :

FOR- 78 is meant to prevent the development of anaerobic bacteria, particularly in the process of penetrant testing effluents.

Anaerobic bacteria are a source of putrid odors.

The FOR-78 inhibits and help eliminate bacteria.

Packing :

- ◆ Kegs of 25 and 65 Kg

LA-1 Alkaline degreaser :

Features :

Compliant with all metals

Low-foaming. Does not leave any white marks

effective at low temperature. Non-flammable

Replaces the vapor of degreasing

Packing :

- ◆ Barrel of 10 liters.

T-50 Corrosion inhibitor :

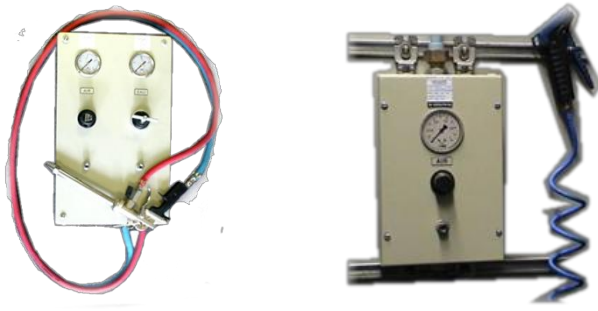
Features : The T-50 is an additive meant to be injected by a dosing pump using running water, for instance to rinse parts during penetrant testing, when these parts corrode easily.

Packing :

- ◆ Barrel of 5 liters.

Hydropneumatic regulation unit

Equipment



Regulate unit water/ air/ air & water for penetrant testing (rinsing/pre-rinsing/blowing).

Option: Set with non-stop water temperature measurement.

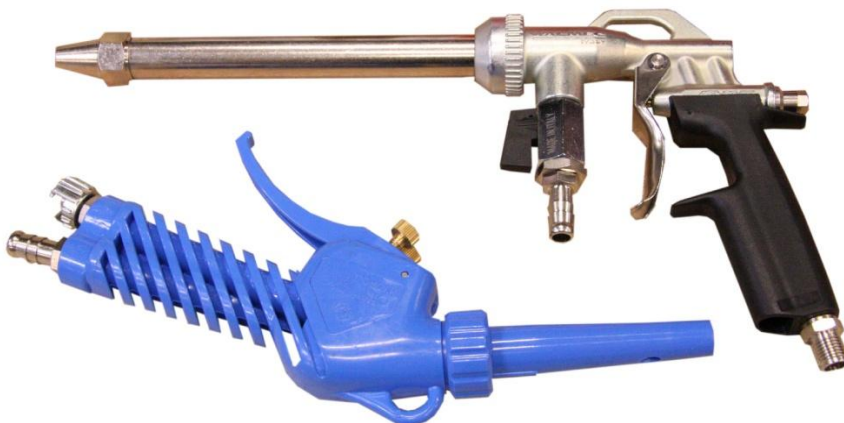
Supplied with certificates.

Spraygun Air/Water

Features :

With long nozzle : reduces water to fine particles, producing a very soft mist, this gentle application is ideal for pre-emulsified penetrants.

With short nozzle : highly practical, both air and water delivery are activated by a single trigger, light and easy to handle.



Water gun, Spec. BOEING

Features : generation of light rain. Full cone.



Hydropneumatic spraygun economical price

Adjustment air/water flow by thumb wheel.

Hydropneumatic PREMIUM spraygun

Semi-professional adjustment water by thumb wheel.

Water gun WG-1

A robust spraygun MIL-I-6866 and ASTM E 1417 approved.
The Tri-Con gun is available
with or without the nozzle allowing spraying large drops of water
without air under pressure.



Microscope 25X with reticle

This pocket microscope enables to see 5mm long Penetrant Testing indications with 50µm resolution (5/100mm), thanks to its dimensioning reticle. The Fluorescent penetrant indications can be lighted with a UV lamp through a hollow in the stand and measured under mixed light (UV and visible light, in order to see the graduations).

Pens for very local application of penetrant



**Felt pen with pump, filled with penetrant or to be filled (single use) for very local application (retouch).
Writing size: 18x5mm.**

Also available in PMUC version, writing size: 2x4mm



Kimo TK100

Thermometer Kimo TK100, multiple probes available.

One example of probe :

- T Thermocouple class 1 copper contact type XSCKCC 150 (-50 to +250 ° C)
Probe stainless steel 4 mm. Length 150 mm with handle, coiled cable, connector compensated miniature male.



Contact pastille
de -50 à + 250°C



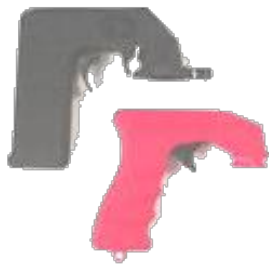
Applicator

Application flask including a stopper with pompon for localized penetrant testing without smudging.



Handles for spraycans:

Facilitate spray can handling for controlled, reduces fatigue careful spraying. Incorporated trigger.



Compressed air sprayer: CP394

Reloadable sprayer for spraying of bulk liquids (penetrant testing and magnetic testing).



UV-A light pencil:

To perform very localized inspections in UV cabin without affecting the adaptation of the eye to darkness.



Preval SPRAYER:

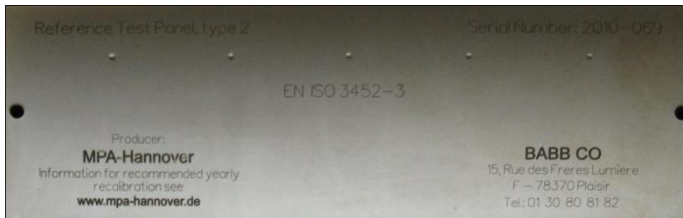
Empty aerosol containers for spraying any liquids.



Test panels for penetrant testing

European block ISO 3452-3 Type II

Features: 5 star-shaped defects and 4 areas of roughness for overall monitoring of both colour contrast and fluorescent processes. Low level.



Tesco Eishin NiCr 10, 20, 30, ou 50 μm (ISO 3452-3 Type I).

Features :

Single or Twins in a protective box.

10, 20, 30, 50 μm : denote the thickness of the chrome cracking.

Linear cracks, their width is 1/20 of the chrome cracking thickness width. The substrate is brass.

PSM-5 Classical (Tam Panel 146 040)

Features :

Meets Pratt & Whitney, Aerospatiale and General Electric specifications

Variant : also available entirely sandblasted.



Master parts for control

Twin KDS panels PE & WW

Features: identical twins, used in pairs. Photo reference not needed anymore (one panel remains as the master for comparison).



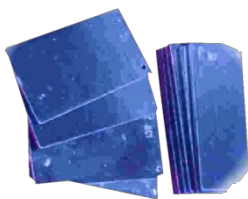
WTP-1

Features: two areas with identical roughness to compare washability.



"Runchek" single-use Bakelite panels

Features: contain 1, 2 or 3 defects. These panels are intended for a single use and should not be used to measure the sensitivity of the materials or process. Sold in pack of 100 pieces.



ASME aluminum test block

Features: Reusable many times with same products. Global summary test.



KC-Qpon

A kit specially designed for testing quality of cleaning and degreasing before penetrant testing.



Sizing gauges

Set of gauges from 0.45 mm to 1.50 mm in 20 points and from 1.50 mm to 3 mm in 16 points. For sizing under UV-A, according to GE Aviation and NADCAP.



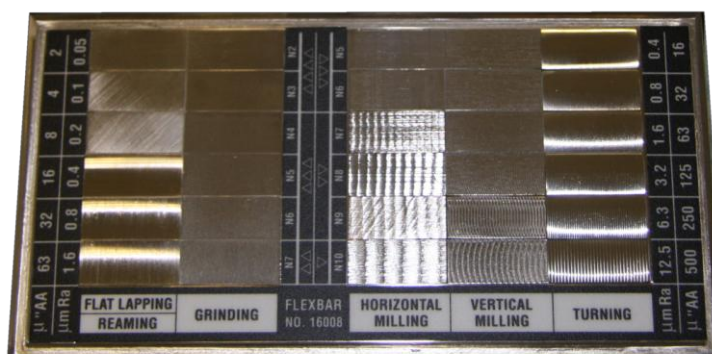
Rugotest 3

Rugotest 3 is a comparator of profiles for finishing processes by shot blasting. It has been developed by the "Laboratoire Central de l'Armement français" (L.C.A.) and the "Commissariat à l'Energie Atomique" (C.E.A.). It corresponds to the standard NF E 05-05, now replaced by the standard ISO 8503. It remains largely used in industry. The panel (90 x 120 mm) comes in a case and includes two sets of shot blasted surfaces, spherical shot blasting and angular shot blasting.



Rugotest of surface

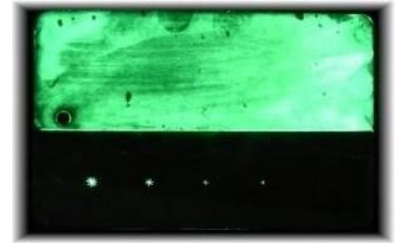
Our set of surface roughness standards contains 30 samples of 7/8" x 3/8" electroformed solid nickel plates for quickly evaluating the surface finish for six of the most common machining methods. Markings for each of the lapping, reaming, grinding, milling, and turning standards are in AA (micro-inches) and the metric equivalent, Ra (micrometers). Each surface type is consistently reproduced from masters and is accurate within $\pm 10\%$ of the nominal value. An ideal tool for quality assurance labs, engineering departments, drafting rooms, and machine shops, the standard gives the designer or operator a realistic idea of the feel, appearance, and texture of machined components. Instructions and CLA/Ra/AA correlation graph is included. The standard is packaged in a handy 6" x 3" wallet carrying case. Calibrated unit includes long form N.I.S.T. traceable calibration report.



Photos References

Photos reference colored or B & W fluorescent under UV, similar to the tested panel, supplied with the new panels to compare tested panels/photos (fluorescent process), to determine % of detection on NiCr (colored process) or to requalify in use panels

Photo at level 1 visible under UV, exclusive Babb Co Labo.



Digital, colored photo references.

New digital photographs, additional services: reprints, issue a disc with the source files (processed & unprocessed photos (watermarked), PDF and word document).

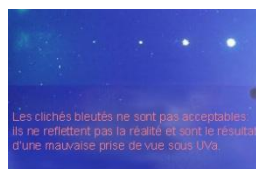
Babb Co has developed a method for reference photography that will satisfy the most demanding people.

Photos are the accurate copy of the test panel at scale 1; which means that the fluorescent indicator of the panel (PSM-5 NiCr or other...) are also fluorescent on the photo. The inspector does not have to exit the booth to see correctly the photo, habituation to darkness is maintained and he can then work continues in optimum conditions. The photo references are presented on a non-fluorescent background in order to avoid disturbances for the inspector.

Babb Co digital photography department offers outstanding services:

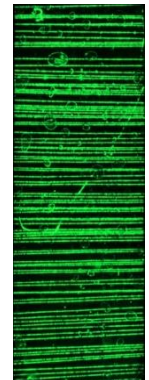
- Special photographic paper highly fluorescent for a better reproduction of panels' fluorescent indications.
- Forgery-proof A4 format photographs, and virtually tear-proof for optimal storage, even in workshop conditions.
- Photos are accurate colored profile : no blue background interference, no fluorescent background: conditions for a perfect comparison with the reference panel

Example of an unacceptable bluish photo.

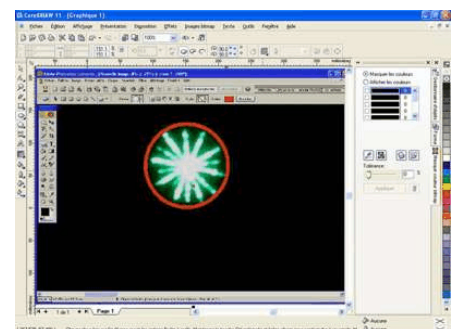


Numerical colored photo references

Our service is also applicable to panels used in colored penetrant testing, with photos essential for "calibration" while penetrant testing on site or in laboratory.



General Electric Aviation, NADCAP, Pratt & Whitney ask for a sizing of indications found on new or in use PSM-5 panel with different sensitivities of fluorescent products, and under different penetrant testing methods. Babb Co is the main contact for these metrological services in relation with Sherwin Inc, depositary and manufacturer of the panel.



Our process of taking reference photo has been approved by Sherwin Incorporated United States, the famous manufacturer of PSM-5 panels, and was also audited and validated by AIRBUS.



For taking photo reference of penetrant test pieces.

TPK1 support allows taking pictures of PSM-5 or NiCr Tesco test pieces, the tripod provides camera stability and has a filter on gelatin holder to remove the purplish / pink incompatible with NADCAP requirements.



For taking photo reference of parts tested by penetrant testing, fluorescent method, all conditions.

The complete system FSP1 allows taking reference photo in the inspection station to capture the discontinuities found in fluorescent penetrant or magnetic particle. It includes:

A 12MP camera

A tripod, a set of batteries & chargers

A set of filters for UV-A light & Blue

All cables and memory cards for immediate use, operating instructions.

A blue actinic flash that allows taking reference photo in the workshop of fluorescent discontinuities even in bright light!

The FSP1 is perfect NDT tool for fluorescent shooting in general.

Pictures performed on site: Babb Co will come on FPI user installations, for taking pictures with our mobile reference picture bench. This is the best guarantee to have perfect photo references as long as the client process is successful! (On-site: this is the customer who is responsible for the result). Our work provides a uniform illumination of the test pieces, taking photo reference in an ideal environment and their printing on a paper suitable for use under UV-A, which is not the case with most of "domestic" photo paper.

Babb Co also offers printing pictures of your files with corrections, if needed: color correction, dimensional scaling & distortion of any kind are treated prior to printing.



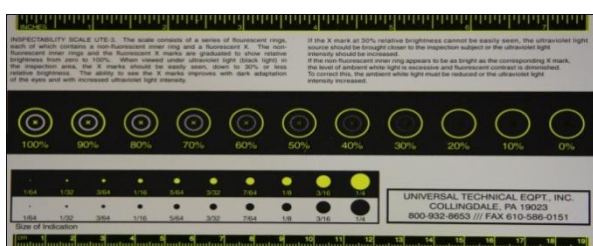
Small material

TAM measurement tool

Features : Instantaneous visualisation of linear or circular indications. TAM panels are used to measure indications in fluorescent penetrant testing / fluorescent magnetic testing, directly under UV-a during the inspection, by comparison.

UTE 3 panels

Features : Verification of inspector's keenness of sight and verification of inspection conditions. UTE-3 scale is used to check if inspector's sight is well adapted to specific conditions of inspection under UV-a. If the inspector does not see properly UTE-3 scale, inspection must wait until visual adaptation is complete.



Micro-volume dispenser

Features : for small amounts of solvents used when doubts arise (fluorescent process). Avoids the risk of knocking over small pots filled with solvent.



Analog and Digital Refractometer

Features : with temperature correction: for determining the % of emulsifier in solution in water. Supplied with its dedicated reference curve.



Swabs non-fuzzy "non fluffy"

Features :

Dense, non-fluffy cotton swabs for efficient wiping. No risk for NDT (less engorgement of the dense cotton by the solvent and small volume concerned). Available with pointed end (SC7 type) or round end (SC3 type). Maximum diameter at the ends : 3mm , length coated with cotton : 1 cm, total length : 7,5 cm. Length 15 cm for SC9 single-end swabs.



TESTING AND ANALYSIS

As part of its global offer, Sherwin-Babb Co supplies many metrological services on the devices that we sell or on other brands in the following areas:

- ✓ Visible photometry : lightmeters and photofluorometers



- ✓ UV-A Radiometry
(mostly radiometers used in NDT fluorescent methods).

- ✓ UV-B & UV-C Radiometry
(control of Wood lamps, medical germicidal lamps).



- ✓ Radiometry actinic radiation Blue/Green
(medical)

- ✓ Magnetic fields, tangential & residual as part of the magnetic testing, AC, DC, intermediate.

- ✓ Radiometry gamma (debitmeters & nuclear dosimeters)
(radioprotection)

- ✓ Contamination β (radioprotection)



- ✓ Water/Air pressure (facilities, NDT process).

- ✓ Physico-chemical measurements, applied to capillary liquids in NDT :
 - Fluorescent Intensity
 - Viscosity
 - Flash point
 - Water content
 - BOD/COD of effluents



Vocabulary (NF EN ISO 100 12)

We are often asked for a “calibration”, is it the appropriate term?

1. Calibration (NF X 07010)

This is a simple statement of deviations with stated uncertainty, without judgment or adjustment. The user must decide if the device meets user needs and trace the curve of correction.

2. Verification (NF X 07011)

Generally preferred to calibration, verification includes:

- A statement of deviations & uncertainties.
- Adjustment of the device if it deviates unacceptably from tolerances or Babb Co standards.
- A judgment regarding a device's deviance from standard.

3. Traceability

Each of these operations requires of course from the verifying agency to:

- Link a device to a known reference unit.
- Employ qualified staff to perform these operations.
- Keep track of the performed tests and measurements, and any adjustments to the device, even if all the collected data are not transmitted to the customer.
- Know the uncertainty generated by the service (bench stability, contribution of the verified devices...)

Note: an usual certificate must briefly mention the conditions of realization of the service, essential data enabling the customer to know basic settings of the metrological operation.

4. Into practice, in our laboratories.

Many companies ask for our services: EDF, SNCF, Turbomeca, Dassault, AIR France, SNECMA EADS/AEROSPATIALE/AIRBUS Matra, Bureau Véritas, APHP (public assistance, hospitals of Paris), Médiprema.....

The Babb Co service is performed in our laboratories (Head Quarters 78), at Babb Co Engineering (33) or at NDT-Europa for 90 % of the covered areas.

Our organization allows short lead times (about 10 working days) and the provided certificates meet the needs of most nuclear, aerospace, transportation and medical users...

We are traceable to NIST (USA) and to LCIE (Central Laboratory for Electric Industries, France/Europe) for the most calibrations performed, as well as NPL (UK).

In radiometry/photometry/field measurement, the standard acceptable difference is about 15 % (addition of the relative error & absolute uncertainty).

Absolute uncertainty is mentioned for all values.

If an adjustment is made to a device, the supplied certificate shows two statements of measures*: before and after adjustment for full traceability.

(*systematically or on request according to devices.)

Our means

Radiometry/photometry bench and reference units from UV-C to visible:

Power supply stabilized in voltage and current, guaranteeing stability of line spectra and spectra discrete emission, continuous variation.

7 waves references length :

- UV-C 254 nm
- UV-B 300 nm
- UV-A 365 nm
- Blue 450 nm/Blue 460 nm/purple 420 nm
- Green 550 nm (possible red 660 nm /yellow 580 nm)
- Visible white 3000°K / 2700°K

MAGNETISM: continuous field generator /sinusoidal / rectified alternating, reference unit in continuous field.

RADIOPROTECTION: gamma irradiator authorized, Cesium 160 mSv/h max. reference unit specialized in contamination Cobalt 60.

PRESSURE : static 6 bars max.

VISCOSITY : tubes ubbelohde, viscosity kinematics 1 to 50 mm²/s

Physicochemical tests: various laboratory equipment.



Some highlights applied radiometry / photometry.

Many in use detectors come coated with fluorescent products.

Similarly, many of them emit fluorescent bluish light under UV-A: but the measurement of visible light in UV cabin must be done of course in the inspection area, all UV sources in use.

If the diffuser of visible light detector fluoresces under UV light, the diffuser will emit light: the sensor receiving the light, clearly displays a value much greater than the reality, which is detrimental to the user.

There are also many visible light sensors whose response curve is very different from the curve of the standard eye in photopic condition defined by the IEC (International Electrotechnical Commission) also specified by Snecma DMC 0010 and 0070, European standard NF EN ISO 3059 .

BABB CO automatically checks UV detector response, to attract users' attention if necessary on the problems encountered.

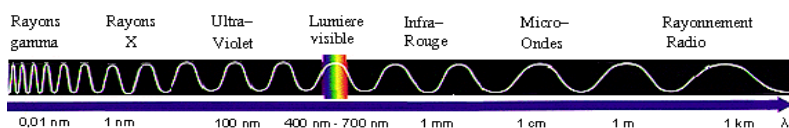
Similarly, BABB CO automatically checks in the red and in the purple the response curve of visible detectors, for every non-Spectronics detectors.

Of course, BABB CO checks the zero (electrical, as well as mechanical in the case of needle devices) and measures at least three points, sometimes more if the unit is difficult to adjust.

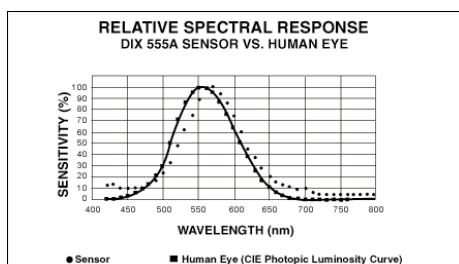
Of course: we affix stickers and guarantee strips

Reminder:

-Spectrum of electromagnetic radiation



-Eye response curve



MAGNETIC TESTING

NON FLAMMABLE / ODOUR-FREE / NON CORROSIVE

All these developers are WATERBASED.

Conformity: compliant to codes: ASME Section V; norms : NFF 00-090

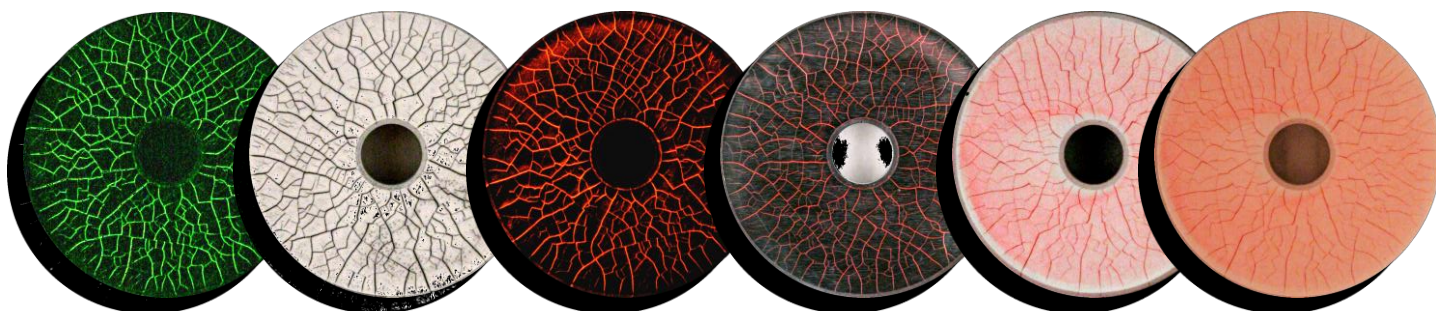
ISO 9934-2 - Specifications : ASTM E1444 & AMS 3044 & 3042

- **820A** : black; to be used with the classical white background B104A.
- **778A** : fluorescent.
- **850A** : red mixt, dual use ! THE new way to control in magnetic testing on site.



For 850A:

Detection with or without application of white background:
save time on site;
all methods detection:
white light, mixt light
UV&Visible (solar)
or UV-A light.



Fluorescent products

B-101C Fluorescent Magnetic Developer

Features:

B101 C benefits of a very interesting grain size range: from 0.5 to more than 10 μm . Therefore it is a very versatile product which is suitable for detection of "normal" or very thin defects. Its carrier liquid makes possible a very high freedom of movement of particles. This enables a flawless detection even in case of critical inspection conditions.

Packing:

- ◆ Aerosol 400 mL. non-flammable.

Aerosols propelled with compressed gas 400 ml



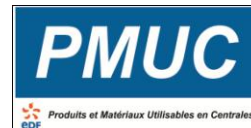
KP-17B Fluorescent Magnetic Developer

Features:

KP-17 B is a general-purpose product for magnetic testing. Its average grain size range is centered on 8 μm , starts from 1 μm and ends on 10 μm . Low background, Petroleum with a flash point 60 °C : the product is more intended for small benches or as non recyclable sprayed product.

Packing:

- ◆ Barrel of 10 liters.



KP-25 Fluorescent Magnetic Developer

Features:

Used in Aeronautic industry.

Ultra-thin grain size.

Particles easily put in suspension.

The KP-25 is approved by DASSAULT, SNECMA, AEROSPATIALE, ROLLS ROYCE, TURBOMECA.

Its ultra-thin grain size makes it a very thorough detection product (Poudre from 3 to 11 μm with average at 6.5 μm).

It is ideal for machined surfaces. Its petroleum medium is improved for a high contrast and few violet reflections, thereby offering astounding observation conditions. Slow sedimentation, with the possibility to put the particles back in suspension very quickly, practically no risk of accidental powder deposits in the tanks.

Try it !

Packing :

- ◆ Barrels of 10 liters and 25 liters.



KP-118 Fluorescent Magnetic Developer

Features :

KP-118 benefits from an extremely shiny powder that provides very clear indications and very low background , even on coarse surfaces. With an average grain size powder, KP 118 is a very versatile developer. Flash point 100° C.

Packing :

- ◆ Barrels of 10 liters and 25 liters.



WCF-17B Fluorescent Magnetic Developer

Features :

200 ml concentrate doses for 10 L of water.

WCF concentrate contains :

The anti-corrosion, the wetting agent, the anti-foaming agent, the powder.

Using these doses, provides a very effective ink at low cost.

Use on worksite with a spray, or a bench.

Precautions: degrease the parts thoroughly, sensitive to frost.

Packing :

- ◆ Box of 6 doses (1 dose for one barrel of 10 liters of water)
- ◆ Barrel of 5 liters.



Babb Co Safe 778A Fluorescent

Features:

Yellow-Green fluorescent magnetic ink for inspection under UV-A:

- very thin
- very stable
- 250mL concentrates to be diluted in 10L of water

Can be used with any magnetic field generator (current passing, hand yokes, permanent magnets) and in magnetic benches.

Packing :

- ◆ Box of 6 x 250ml
- ◆ Barrels of 1 and 5 liters

KP-600 dual use Developer

Features :

Dual use red petroleum based magnetic developer.

KP-600 is a red magnetic developer under white light and fluorescent / orange under ultraviolet light. It is dosed in powder for use under white light.

On certain dark-colored parts, its color makes it possible to skip applying white background. For more thorough detection, one can work under white light that is "boosted" with some ultraviolet (e.g. sunlight) or under UV radiation. The background in that case is significant because KP-600 has a very high powder content. Flash point 100° C.

Packing :

- ◆ Barrels of 1, 5 and 10 liters



MG-118 Fluorescent Magnetic Powder

Features:

Excellent brightness, little noise, for every part, excellent results on rough areas.
After several uses, upgrade the powder level as in KP-118.

Packing:

- ◆ Box 500 g.
- ◆ Box of 1kg.

MG-600 dual use red Powder

Features:

Versatile: after several uses, upgrade the powder level as in KP-600

Packing:

- ◆ Box 500 g.
- ◆ Box of 1kg.

MG-800 Fluorescent Magnetic Powder

Features:

Versatile: after several uses, upgrade the powder level as in KP-17B.

Packing:

- ◆ Box 500 g.
- ◆ Box of 1kg.

MG-810 Fluorescent Magnetic Powder

Features:

Composite powder composed of: MG-800 powder (see KP-17B & B-101C features), wetting and anti-corrosion agents. Unlimited life cycle! A new way to deal with economical water-based developers. Powder to be diluted at 10 g/L.

Packing:

- ◆ Box 500 g.
- ◆ Box of 1kg.

LY-2500 Fluorescent Magnetic Powder

Features:

Ultra thin, predilection on manufactured surfaces, high power hooking up of the magnetic field leaks lines.

After several uses, upgrade the powder level as in KP-25.

Packing:

- ◆ Box 500 g.
- ◆ Box of 1kg.

SY-8000 Fluorescent Magnetic Powder:

Features:

Versatile, high performance: SNCF approved.

Packing :

- ◆ Box 500 g.
- ◆ Box of 1kg.

BP-42 Black Magnetic Powder

Features:

Black very sharp, very stable, after several uses, upgrade the powder level as in KP-42.

Packing:

- ◆ Box of 1kg.

Colored products

B-103C Black Magnetic Developer:

Features:

Product relatively well loaded with powder for an ideal balance of the contrast. The liquid that carries it allows for high particle mobility for seamless detection, even under critical operating conditions.

Packing:

- ◆ Aerosol 500 mL.

B-102A White background PELLICAL:

Features:

White strippable lacquer, easy to remove by pulling and brushing, quick drying and great coverage, serving as a contrast agent for black or red magnetic developer. B102-A offers a considerable time saving during all operation that requires the elimination of magnetic white background after the inspection.

Packing:

- ◆ Aerosol 500 mL.
- ◆ Barrel of 10 L.

B-104A White Background

Features:

Product heavily loaded and opacifying. Length treated: exceeding 30 meters with a spraycan. High covering effect with a very thin layer =>very attractive covered surface / aerosol ratio, after drying, the layer is very thin, hence a better detection. Fast spraying in order not to waste any time, nearly no clogging.

Packing:

- ◆ Aerosol 500 mL.

B-105 Solvent:

Features:

B-104A being very durable, cleaning it requires B-105!

B-105 can also serve as a general-purpose degreasing agent before penetrant testing, for example.

Hyper effective to remove the B-104A (and white backgrounds in general...)

Packing:

- ◆ Aerosol 500 mL.
- ◆ Barrel of 10 liters (without analysis).

KP-42 Black Magnetic Developer

Features:

Equivalent to B-103 C but in bulk. KP-42 has a medium particle content for achieving a good indication/background contrast ratio and easier detection.

Flash point 60° C.

Packing:

- ◆ Barrel of 10 liters.



WCB-42 Black Magnetic Developer

Features:

200 ml concentrate doses for 10 L of water.

WCB concentrate contains:

Corrosion-inhibitor agent, wetting agent, anti-foaming agent, dual powder. Using these doses, yields a very effective ink at low cost.

Used on worksite with a spray or on a bench.

Precautions: degrease the parts thoroughly, sensitive to frost.

Packing:

- ◆ Box of 6 doses (1 dose for one 10-liter water barrel)



DP-66A Dry Magnetic Powder:

Features:

Fast check without white background, yellow high Temperatures (427°C).

Packing:

- ◆ Bucket of 2,3 kg

DP68 Dry Magnetic Powder:

Features:

Fast check without white background, blue high Temperatures (427°C).

Packing:

- ◆ Bucket of 2,3 kg.

UW1 dual use Magnetic Powder for underwater check:

Features:

Mixt red magnetic powder intended to be suspended in an aqueous medium. Used for the finding defects in Magnetic testing under UV, blue actinic or visible in underwater environment.

Powder Blower PB1

Powder blower for dry powders.

Special Oils

K-5500:

Features:

Oil for dilution, dearomatized, Flash Point > 60°C.

Packing:

- ◆ Barrel of 10 liters.

K-9300:

Features:

Oil for dillution, dearomatized, Flash Point > 100°C.

Packing:

- ◆ Barrel of 10 litres.

B 100 S

Features:

Shipped in a carrying case and with a certificate of conformity.

B 100 S is the latest product in the range, it's the lightest.

The switch is ideally situated under the forefinger.

B 100 S is a device that can be dismantled. It is therefore easy to repair.

Weight: 2,95 kg

Distance between poles: 0 to 260 mm

Lifting power: 6 kg

Alternating field.

Electromagnets



B 300 S

Features:

Splash proof.

Shipped in a carrying case and with a certificate of conformity.

Similar to the B 100 S, expect the B 300 S is molded and cannot be dismantled.

Encapsulated in resin, the electric circuit is particularly well protected. Only the cable and the switch can be replaced.

The switch is ideally situated under the forefinger.

The B 300 S should be preferred when the work involves possible exposure of water/vapor or other liquid.

Weight: 3,4 kg

Distance between poles: 260 mm

Alternating field

Lifting power: 6 kg (5 kg B 48)

Available in low voltage: **B 48**



B 310 S

Features:

Splash proof.

Shipped in a carrying case and with a certificate of conformity.

The B 310 is the smallest yoke in the range.

It is extremely easy to handle.

Due to its molded construction, the electric circuit is encapsulated in resin. It is therefore particularly protected.

The switch is ideally situated under the forefinger, thereby allowing for use even in the most inaccessible locations.

Weight: 3,1 kg

Distance between poles: 205 mm

Lifting power: 5 kg

Alternating field.

Available in low voltage: **B 142, 42 à 48 V**



DA 200 S / A 48 / D 48

Feature:

Shipped in a carrying case and with a certificate of conformity.

DA 200 S AC switch/ R 1 A

The most powerful yokes in the range.

The DA 200 S is easy to grasp due to its handle, thereby minimizing the stress on the hand.

Its very powerful magnetic circuit makes it ideal for work conducted on large parts or on alloyed steels in a workshop.

Can be dismantled for easy maintenance.

Switch under the thumb.

Distance between poles: 400 mm

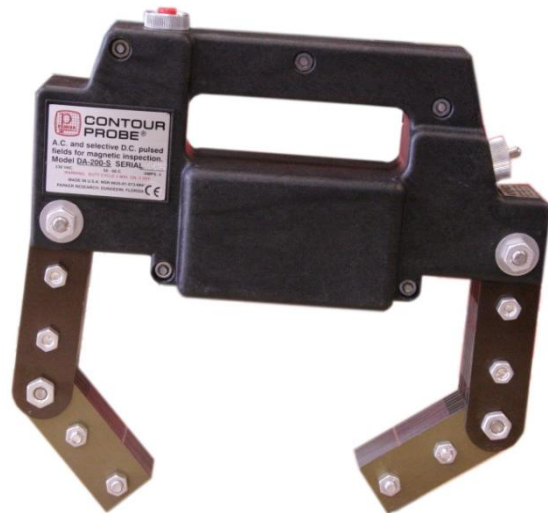
Lifting power :

DA 200 S alternative : 11 kg

A 48: 11 kg

D 48 R1A: 28 kg

Weight: 5,8 kg



A 410 S / A 448 / DA 400 S

Features:

Shipped in a carry case and with a certificate of conformity.

DA 400 S: AC switch/ R1 A

These electromagnets are provided with a handle, which considerably limits hand fatigue in case of prolonged use, as opposed to "compact" electromagnets.

Switch located under the thumb.

Case easily disassembled for maintenance.

Device very popular with services companies.

Distance between poles: 255 mm

Lifting power:

A 448: 5 kg

A 410 S or DA 400 S in alternative: 7 kg

DA 400 S in R1A (pulsed DC): + de 18 kg

Weight: 3,6 kg



Reduced exposure to the magnetic field thanks to the handle (European directive 2004/40 CE)

JAY-Pac set: hand yoke (AC) on battery :

The Jay-Pac set offers the possibility to perform independently magnetic testing inspection with true alternative biled, and not pulsed DC, and thus approaching normal control conditions (detection of surface defects).

Hand Yoke JAY: weight 3,25 kg – lifting force over 4,5Kg – size of the poles 25x25mm – on/off switch under the index.

Freedom of movement with a belt, on which can be attached the magnet, the system generator / battery, aerosols ...

Extended use period (4 hours continuously with the hand yoke model JAY, 6h with model JASON).

12V battery pack powerful & light weight (1.25 kg) with 5 LEDs indicating the charge level. Protection against overload, against deep discharge, against short-circuit.

Recharges in 8h with quick charger



The JAY-Pac set includes:

- Hand yoke 110V model JAY (or JASON, lighter) with flexible cord
- Leather belt with pockets for wearing around the waist the hand yoke, the generator and battery, aerosol (x2)
- Lithium battery
- AC Generator
- 230V AC charger & cigarette lighter plug
- Storage case





Magnetic field meters

New: graphic field analyzer, visualization of the magnetization curve, drop control. This device is designed specifically for use in aerospace through the display of the true value of the peak values.

Technical features :

Electromagnetic compatibility:	compliant with EN 61326 Ed.97 + A1 Ed.98 + A2 Ed.01
Power:	9 V battery (PP3/ 6F22 / 6LR61)
Consumption:	27 mA
Autonomy:	~20 hours (without backlighting)
Sensor:	effect sensor Hall SS495A
Measuring range:	from – 47 000 to 47 000 A/m real
Resolution:	10 A/m
Frequency range:	from 40 Hz to 410 Hz
Sampling frequency:	10 kHz
Refreshment:	8 Hz
Dimension: Dimensions of the case:	120 mm x 65 mm x 22 mm (without probe)
Weight:	180 g with battery
Case:	ABS reinforced plastic
Water-and-dust-proofing:	IP 64





Magnetics residual filed meter

- Matrix display
- Shock proof sensor
- Resolution max.: 1 A/m.
- Available units: A/m Oe mT

Device supplied with carrying case, corresponding metrological certificate & recent compliant with NFX 7011 & 010

Technical features:

Detection features

Sensor: effect sensor Hall SS495A

Measuring range from: – 47 000 to 47 000 A/m real

Resolution:(on 3 significant digits)

from 0 to 100 A/m:1 A/m

> 100 A/m :10 A/m

Mechanical and environmental features

Dimension: Dimensions of the case :

120 mm x 65 mm x 22 mm (without probe)

Dimensions of the probe:

D 10mm x L 27,5mm

Weight: 180 g with battery

Case: ABS reinforced plastic

Water-and-dust proofing: IP 64

Either;

The first number shows the tightness to solid substances:

6, for total protection against dust

The second number shows the tightness to liquid substances:

4, for protection against water splashes.



MDC1_n²

Tangential magnetic field meter **MDC1n²**, successor of MDC 1 and MDC1n, this device combines the required features for a worry-free:

- ✓ Robust, accurate, versatile & simple
- ✓ Mono display unit (A/cm, Gauss, Oe, mT) by pull-down menu.
- ✓ Measurement range: + /- 333 A/cm effective (470A/cm peak).
- ✓ Backlighting
- ✓ Resolution max. 10 A/m on 3 significant digits.
- ✓ Straight or angle probe, tangential field.

The MDC 1n ² is the reference device, stable and accurate, it lasts in the time. This is the preferred device in the mechanical and nuclear industries.

Device supplied with carrying case & recent metrological certificate Cofrac attached, compliant with NF EN ISO 10012



Angle probe for **MDC1n²**



Straight probe for **MDC1n²**



Mini probe

Test Pieces

Test pieces:

- BERTHOLD gauge
- Pie gauge ASME
- Indicator n°2 AFNOR

Berthold gauge

BERTHOLD gauge is made of a flat ring of protection, Without persistence, in which is housed a cylinder Of soft iron, including 4 sectors. They are separated by non-magnetizable cuts.

A capsule fitted with a thin brass bottom is screwed on the cylinder. The bottom of the capsule can be placed closer or far from the part to control by a simple rotation.



Asme gauge

The ASME gauge consists of eight triangles of carbon steel, brazed together. Copper foil about 0.25 mm thick covers the whole. Similar to the BERTHOLD gauge, the most apparent lines are those that are perpendicular to the magnetic force lines.

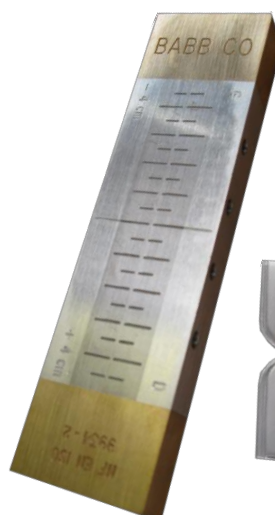
Afnor N°2 Gauge

Circular gauge in extra-mild steel or in industrial iron of 28 mm diameter and of 1 to 2 mm thick, with a circular discontinuity at mid-range, the whole being recovered on a side of a copper foil of 0, 5 mm thick. The discontinuity on the other side (front panel) is hidden by a paint film of about 0.01 mm thick.



Different gauges: please contact us

- MTU N°3 NF EN ISO 9934 Type 1
- Ketos ring SNECMA ou Ketos USA
- Burmah test piece
- Test bar C NF EN ISO 9934 Type 2
- Rolls Royce test piece
- Flexible ephemeral QQI test pieces
- Centrifuge tube + its stand
- Test bar A & B
- Disc AS 52 82



Accessories

Permanent magnet AP 56

Permanent yokes with boron-iron-neodymium non-dischargeable poles. 150 mm long poles, connected by a 300 mm long metallic cable. Supplied with a transport case. Lifting power > 30 kg. Aluminium and resin body.



Permanent magnet AP 65

Permanent yokes with boron-iron-neodymium non-dischargeable poles. 150 mm long poles, connected by a 350 mm long metallic cable / 40 mm diameter poles. Lifting power > 40 kg. Aluminium and resin body. Supplied with a transport case.



Y400 induction lamp for hand yoke

- For use with B 300 S / B 48 / DA 400 S alternative A 410 S / A 448.
- Provides an additional lighting of around 500 lux when the yoke is on AC mode.



TB 10

4.5 Kg bar intended to check lifting force of electromagnets. Each bar has its own serial number and certificate

Transformer

Compliant with EN 60742.

- Carry-on handle
- Circuit-breaker, circuit separation
- 230/48/12
- 230/48/24 => delivery within 10 weeks
- Extension cords available in option : 10, 20 and 30 meters



Extensions for A48, D48, A448, B48, B142. Supplied with male and female adapted plugs. Section of cable makes possible an extension up to 60m in 48 V and up to 30m in 24 V.

Panel according to NF EN ISO 9934-3

Panel intended to measure magnetization according to NF EN ISO 9934-3 supplied with certificate (weight around. 10 kg) to be used with a tangential magnetic field meter.



Leak proof: Portable lamps and overhead sources

Portable lamp HLE108

- For the rising in penetrant testing chain
- UV Atmosphere
- Neon 8 W
- Available in 230 or 24 V AC

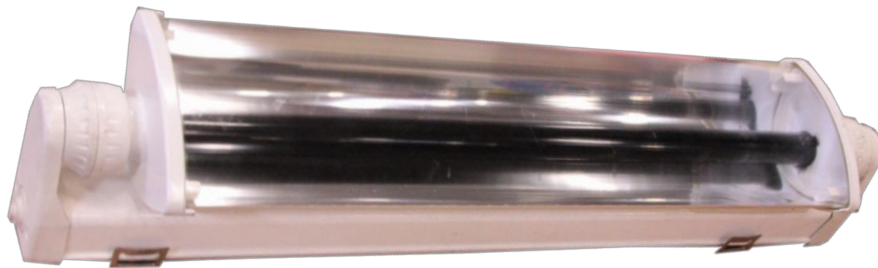


Leak proof UV overhead source:

Leak-proof overhead with intensive reflector (oriented beam) or high efficiency (large beam), 'bryal' treated for optimum reflection in the wavelength range of UV-A.

Transparent plastic covers UV-A.

- Naked tube version: general atmosphere
- Tube with reflectors & PMMA UV hood with 2 types of adjustable reflector version:
- Clear, high efficiency, PMMA, flood beam, cone 60°
- Intensive, PMMA, spot beam, cone 20° (500μW/cm² at 60 cm for the 2-tubes version).



Leak proof Explosive Atmosphere UV lighting single & bi-tube:

- Built in Marine grade aluminum alloy
- Yellow paint with polyurethane
- Glass tubes
- Nominal intensity of 250 μW/cm² at a distance of 50 cm & of 100 μW/cm² at 100 cm.
- Standard voltage at 230V 50Hz (other, see options)
- 1 cable-gland ¾ » NPT brass
- 1 plug ¾ » NPT steel
- 1 Set of 2 articulated brackets



High power cooled superflood overhead source UV400.

Metal halide bulb with ferromagnetic ballast and starter.

UV-A lighting: 6,000 μW/cm² at the lamp's center at a 40 cm distance.

Minimum lifespan of the bulb: 1,000 hours.

Illuminates an area as large as an A3 with 2000μW/cm² minimum (new lamp). High reflection parabolic reflector in the UV spectrum. Double filter for complete blocking of UV-B&C, thick wood filter for a good filtering of visible light parasite. (26*28cm)

Size: 38*30,5*30,5cm ; Weight 16,3kg.



Led Lenser H7R:

Headlamp LED white LED with a C-4.5Wh power and a range of 54h.

- Adjustable beam
- Swivel head à faisceau réglable
- Setting potentiometer
- Rechargeable



HeadsUP Lite 2690 ATEX Zone 0:

Headlamp with very powerful LED bulb:

- On/Off switch to be activated with one hand
- Lightweight, practical and well balanced
- Guarantee unconditionally



Baladeuses Fluorescentes blanches classiques 230 V

Portable lamp 7, 9 & 11 W, IP 20 ou 67 delivering a universal white light 4000°K.

HLW 107 :

- Supply voltage 230V: 50Hz
- Equipment: 1x compact fluorescent lamp TC-S 7 W
- Cord: approx. 5m
- Dentless plastic
- Weight: approx. 0.9kg



HLW 109 :

- Supply voltage 230V: 50Hz
- Equipment: 1x compact fluorescent lamp TC-S 9 W
- Cord: Environ 5m
- Dentless plastic
- Weight: approx. 0.9kg



HLW 111 :

- Supply voltage 230V: 50Hz
- Equipment: 1x compact fluorescent lamp TC-S 11 W
- Cord: approx. 5m
- Dentless plastic
- Weight: approx. 1.0kg



HLW QE1 :

- Supply voltage 95-240V: 50/60Hz
- Portable LED lamp
- Cord: 5.0m
- Shelf life over 50 000 hours



UV Uvex Protective goggles:

Lunettes UVEX:

Polycarbonate clear treated UV&Visible.

Features:

- ◆ Ergonomical and sportive design
 - ◆ Impact protection up to grade F
 - ◆ Integrated brow, side and cheek guards
 - ◆ Extremely simple lens replacement
 - ◆ Good field of vision
 - ◆ Soft end temple arms with spring effect
- 5 positions length adjustability

Technical details:

Temple and frame:

Material: Permaflex (thermo plastique rubber)

Features: 5 positions length adjustability, soft temple ends

Colour: Blue

Available in small size (1,2 cm less than the standard frame)

Screen:

Material: double-spherical single-screen in polycarbonate

Anti-reflective side-shields

Thickness: 1,85mm

Filter: 2-1,2 according to DIN EN 170, UV filtration at 100%

Coating: UVEX SUPRAVISION HC-AF K-N (outside anti-scratch, inside anti-fog, 100% UV protector)

Colour: colorless

Optical class: 1 (without distortion for permanent wear)

Impact resistance: F, (45m/s) according to DIN EN 16



Anti UV over-goggles & contrasting UVS30, UVS40, UVS60

Glasses of optical quality surfaced: avoid the micro-distortions in the vision of molded anti UV goggles in 'polycarbonate'.



Coupling gel SG 1

Sound Good agent 1 is a new generation product, made by a gel effect of low molecular bonds disturbances (NO Thixotropic, this half-fluid / half-pasty is very easy to spread and very adherent to the surface even in vertical or plumb!). Using temperature from 0° C to 50 ° C without significant change, it then becomes more liquid to 80°C max.

Partially aqueous gel, it is not drying, adapts easily surfaces poorly degreased and particularly easy to rinse. Pink, fluorescent in Uva for control of flushing if necessary, almost colorless in thin layers.



Ultrasound Coupling Gel

Ankoril gels

Water-based transparent colorless or transparent green Gel.
Can be diluted with 50% water.



Matrix

The thixotropic properties of the coupling MATRIX ensure him a good behavior on the parts to be inspected regardless of their position. The excellent wetting and provide thixotropy of MATRIX excellent sound transmission. It was developed specifically to facilitate the ultrasonic inspection of construction sites and supermarkets.



GST

The GST is a high boiling silicone gel with additives. It can be used for ultrasonic inspection of large areas up to 250° C.

The product does not drip, does not dry, and provides excellent sound transmission even at high temperatures.



Cleaning tanks

ELMASONIC:

High cleaning power for an absolute cleanliness in the shortest time.

Elma transducers are highly effective. The surface treatment and the tank are in stainless steel, thus are hygienic, robust and easy to maintain
Great care has been taken to the objects to be processed.



Accessories for ultrasonic tanks

Baskets to insert:

For Elmasonic 10, 15, 30, 40, 60, 70, 80, 100, 120, 180, 300.

Covers:

For Elmasonic 10, 15, 30, 40, 60, 70, 80, 100, 120, 180, 300.



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