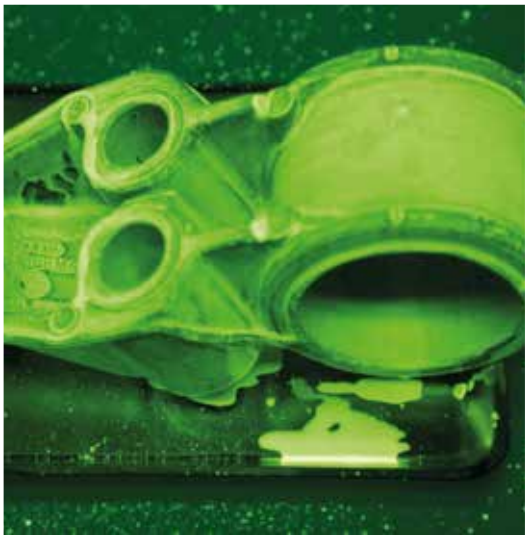
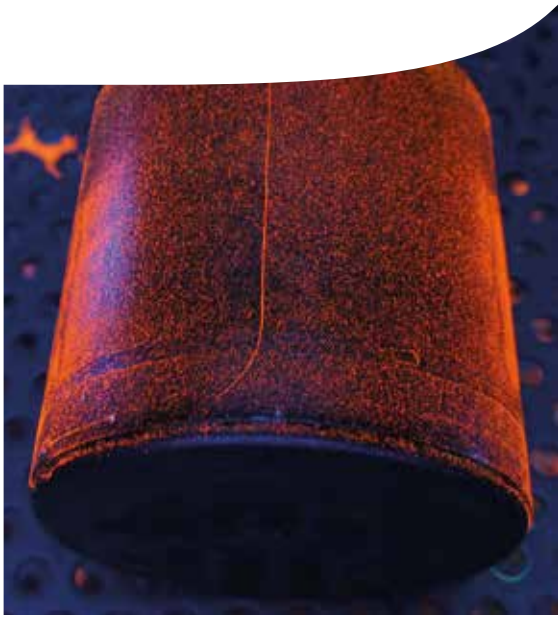
babbco

NDT Expertise for you

Non Destructive Testing

Products to verify the integrity of parts during manufacture and maintenance operations.

Membre de

COFREND®

Confédération Française pour les Essais Non Destructifs

TABLE OF CONTENTS

GLOSSARY 4

SERVICES 5

PENETRANT TESTING 13

MAGNETIC TESTING 40

LIGHTINGS 59

ULTRASONIC TESTING 74

REPLICATION / VISUAL TESTING 79

*Non-contractual product photos

V - 05/2026

GLOSSARY

Biodegradable product



PMUC certified product

Low temperature product



High temperature product



Fluorescent product



Coloured product



Aqueous suspension



Food Safe certified product



SERVICES

SERVICES 5

- Services 6
- Metrology 7
- Reference photos 10
- Analysis 12

SERVICES



BABBCO offers a range of high-tech Non-Destructive Testing (NDT) services in accordance with your requirements.

Our non-destructive evaluation (NDE) support services include:

- **Physico-chemical analysis and tests** of penetrant and magnetic particle products, including periodic inspection of in-use penetrant baths according to the usual standards as ISO, AMS, ASTM and NADCAP.
- **Metrology**, verification of radiometers, luxmeters, luminancemeters, yokes & permanent magnets, magnetic particle test pieces, refractometers...
- **References pictures** in situ or in the laboratory of reference panels (ISO 3452-3 type 1 and 2, ISO 9934-2 type 1, KDS, PSM5 and equivalent). Digital work and image analysis, indications sizing ('baseline' and degradation check).
- **Spectrometry** of UV-A lamps, measurement of the emitted wavelength.
- Electrical and electronic **repairs** of lighting and magnetic particle inspection equipment.
- Intellectual services of advice and level 3 responsible (PT).

Customers can rely on **BABBCO**'s 70 years of experience and knowledge of the latest developments in non-destructive testing when availing themselves of our broad range of products, recommendations and services.

Our dedicated teams offer standardized or customized services, with express or standard turnaround times. We emphasize **On-Time Deliveries** (OTD) and personalized project monitoring. Whether for the storage of data or systematic revalidation, you will be 100% satisfied with the range of options proposed and implemented under excellent response times.

METROLOGY



As part of the overall **BABBCO** team, we offer a variety of metrology services on the devices we sell, and on other brands that will ensure your devices meet:

- the specifications and standards required
- your expectations in terms of quality and safety (standard, priority and express service on demand)
- your NADCAP requirements

The **BABBCO** laboratory has the ability to conduct numerous tests, including:

- **Visible photometry**: using light meters and luminance meters.
- **UV-A radiometry**: mainly with radiometers used in fluorescent NDT methods, UV-A dosimeter integrators.
- **Blue actinic radiation radiometry**: for medical applications.
- Tangential and remanent magnetic fields within the framework of alternative, continuous and intermediary **magnetic particle inspection**.
- **Spectrometric measurement**: color temperature, color rendering index, UV-A ISO 3059, ASTMe3022-18 and RRES 90061 spectrometry.
- **Fluorometer operational testing**.


babbco
RAPPORT
ESSAIS
LABORATOIRE


babbco
CONSTAT DE VERIFICATION
RADIOMETRE/LUXMETRE

OUR SERVICES

- Device calibration (FD X 07-012).
- Verification (certified to NF X 07-011 or according to your request).
- Traceability (NF EN 100-12) according to LNE (COFRAC 2-22 accreditation) or to other national standards according to the service provided.

BABBCO is the exclusive European distributor of Spectro-UV NDT equipment. We are certified as an Authorized Calibration Centre for Spectro-UV's range of devices.



UV-A radiometer calibration - NF EN ISO / IEC 17025 :2017

For many years, BABBCO has been carrying out metrological operations on its range of radio-photometers for the NDT and medical markets. We are now reinforcing our UV-A radiometer calibration services with **NF EN ISO / IEC 17025 :2017 accreditation**. This third-party recognition is proof of the technical competencies of our laboratory and of the smooth operation of an appropriate management system.

ilac-MRA cofrac ETALONNAGE
Available on www.cofrac.fr
N°2-7199

BABBCO's laboratory is accredited by the Comité Français d'Accréditation (COFRAC) for its ability to measure UV-A 365nm radiation. COFRAC issued BABBCO with **accreditation number 2-7199** on the 13th of July 2023 in accordance with the requirements of NF EN ISO/IEC 17025 :2017. The international standard NF EN ISO/IEC 17025:2017 is the benchmark for assessing the competence and impartiality of laboratories. It is particularly demanding because it combines strict quality management requirements with high technical and metrological requirements.

To obtain this accreditation, **BABBCO was audited** to assess its quality systems applied to customer service, customer support, logistics and, above all, the metrology department on its brand new UV-A test bench, which was recently put into operation.

What are the stringent requirements for COFRAC accreditation?

Accredited bodies must undergo a rigorous process. Their skills are then certified by an accreditation system against the standards, reference systems or regulations in force. In order to obtain this accreditation, the BABBCO laboratory underwent a rigorous independent audit conducted by a team of specialist assessors:

- On the **quality side**, by a quality assesor;
- On the **technical side**, by a recognized technical expert in the field of measurement.

This accreditation is a guarantee of compliance, documentary quality and operational excellence.

METROLOGY



What are the advantages of NF EN ISO/IEC 17025 :2017 accreditation?

This accreditation guarantees long-term **reliability and impartiality** through regular assessments and observations, and thus a **high level of trust** in the services provided. It also provides a common frame of reference and genuine recognition by complying with international requirements and standards.

In France, COFRAC is the government-recognised body responsible for issuing accreditations following assessment and validation of the application. The audits carried out by COFRAC officially certify BABBCO's **independence** and **competence** for a 4-year period. This accreditation is reviewed every year with a new audit.

It enables the company receiving this service to have all the metrological work validated upstream by COFRAC. It also enables us to **meet the various requirements** of our service provider customers who are involved in specialized operations on sensitive sites.

Technical outline of the NF EN ISO/IEC 17025 :2017 accredited service:

Here is the scope of accreditation for which the laboratory is recognized as competent to perform calibrations in strict compliance with the methods mentioned:

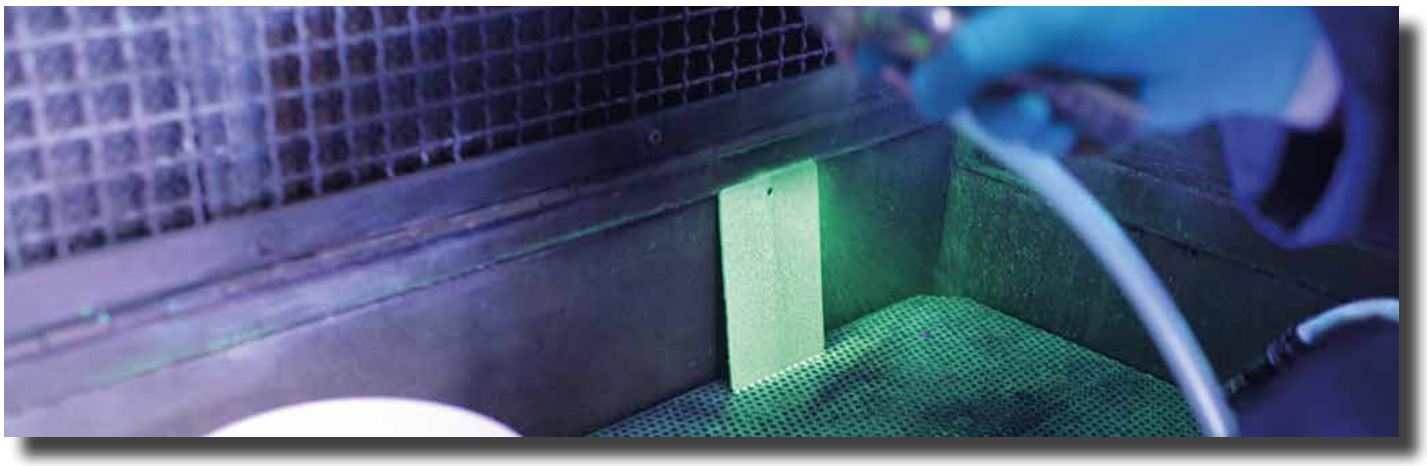
- Main devices used: **standard radiometers** + **UV-A source** centered around **365** nm
- Characteristic measured or sought: **irradiance**
- Measurement range: from **100 µW/cm² to 6,000 µW/cm².**
- Principle of the method: **comparison**, for different irradiance levels, of the response of a standard receiver and the response of the radiometer to be calibrated.
- Method reference: internal method **MI 02-29**
- Place of performance: BABBCO metrology **laboratory.**
- Technical modifications to the procedure are not permitted (fixed range).

We offer this NF EN ISO/IEC 17025 :2017 accredited calibration service on the following radiometers:

- **SPECTRO-UV**:
  - Accumax : XRP-3000, XRP-3000A, XR-1000 + XS-365
  - Accupro : XP-2000, XP-2000A
  - Accuelite : XP-3000A
- **Carmelec** : Flash, Pollux
- **Other devices subject to eligibility (please contact us).**

ENR 2.1-270-03 Applicable 28/04/2026

REFERENCE PHOTOS



BABBCO's graphic services laboratory can produce reference shots for dye penetrant and magnetic particle inspection.

Our photo services are performed in our laboratory or on the customer's premises. A certificate is issued for each service.

PHOTO QUALITY

Produced according to technical specifications XP CEN/TS 17100 and NADCAP AC7114/1:
- full-scale photos
- visible under UV-A
- no parasitic blue background
- high resolution

BABBCO's digital imaging department offers exceptional services:
- Special highly fluorescent photographic print media for optimal reproduction of fluorescent indications on actual panels.
- Tamper-proof photos in A4 format, **varnished on demand for optimal conservation, even under workshop conditions**.
- Photos according to a precise colorimetric profile: no parasitic blue background or fluorescent background, a requirement for perfect comparison with the original panel.

INSPECTION FACILITATION

The panel's fluorescent indications (PSM-5, NiCr, etc.) are fluorescently reproduced on the photo so the inspector does not have to leave the booth to view the photo correctly. Their adjustment to darkness is maintained, allowing them to work under optimal conditions.

The images are also **presented against a non-fluorescent background** to avoid discommoding the inspector.

SPECIAL SERVICES

BABBCO's digital imaging department offers special services:
- Photos can be produced in accordance with a detailed operating method supplied by customers or our standard process, we will use products identical to those you use (custom service).
- Sizing (standard or HD) can be performed.
- The reference images are taken in HD in accordance with the XP CEN/TS 17100 standard.

REFERENCE PHOTOS

babbco
socomore NDT

CERTIFICAT DE MESURE DES INDICATIONS
CERTIFICATE OF INDICATIONS SIZING
N°P1804024D

Plaque / *Panel* : PSM5 P n°xxxxx — Société / *Company* : Babb CO
Réalisé le / *Proceed on* : 05/04/2018 — Date de prochaine vérification recommandée / *Next verification recommended on* : 05/04/2019

Produits de référence / *Reference products* :
Pénétrant / *Penetrant* : HM-3A
Emulsifiant / *Emulsifier* : /
Révélateur / *Developer* : D-90G (électrostatique)

Nota : Le dimensionnement et/ou la photo de référence associée ont été réalisés en conformité avec les normes ASTM E 1417, XP CEN TS 17100 ainsi que les normes EN ISO 3059 et EN ISO 3452-2.
Nota : The reference picture and the associated sizing has been made in accordance with ASTM E1417, XP CEN TS 17100, EN ISO 3059 and EN ISO 3452-2 .

Indications *Indications*	Baseline *Baseline* (mm ; ± 0,1 mm)	Taille *Size* (mm ; ± 0,1 mm)	Ecart relatif / *Relative deviation* (%)	Jugement / *Judgement* (±30%)
A	0,9	0,9	0,0	C
B	2,0	2,1	5,0	C
C	2,2	2,5	13,6	C
D	3,0	3,0	0,0	C
E	4,7	4,7	0,0	C

Commentaires / *Comments* : S.O

Résolution : 0,0495 mm



Opérateur / *Operator*
Nom / *Name* : C. Théron
Date / *Date* : 09/04/2018
Visa / *Visa* :

Approbateur / *Auditor*
Nom / *Name* : A. ASPE
Date / *Date* : 09/04/2018
Visa / *Visa* :

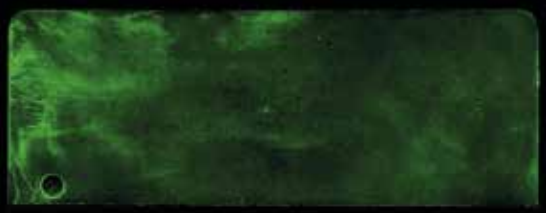
Phone +33 130 808 182 - Fax. +33 130 936 190
15 rue des Frères Lumière - ZI des Ebisoires - BP136 - 78374 PLAISIR Cedex
www.babbco.fr - www.socomore.fr
S.A.S. au Capital de 500 000 €
SIRET/R.C. VERSAILLES B
542 006 614 00060

babbco
socomore NDT

Photo référence / *Reference picture*
N°P17030XX

Plaque / *Panel* : PSM5 P N° XXXXX

Société / *Company* : XXXXXXXXXX
Réalisé le / *Proceed on* : 16/03/2017
Opérateur / *Operator* : L. de BORT
Procédure / *procedure* : Babb Co MI 2-7 révision 10
Produits de référence / *Reference products* :
Pénétrant / *Penetrant* : RC-77
Emulsifiant / *Emulsifier* : ER-83A
Révélateur / *Developer* : D-90G (électrostatique)



Nota : Le point fluorescent doit être visible dans le cercle pour valider le contrôle
Fluorescent point must be visible to approve the picture

Commentaires / *Coomments* : /

Remarques : Ce cliché est le reflet des indications de la plaque étalon obtenu par ressuage. Il doit être lu sous UV-A dans les mêmes conditions que l'étalon réel. Les indications sont susceptibles d'évoluer dans le temps.

Notes : This picture is the reflection of the indications of the standard panel obtained by penetrant testing. It must be read under UV-A radiation in the same conditions as the real standard panel. Indications may change with time.

Prochain étalonnage recommandé par BABB CO avant le / *Next verification recommended by BABB CO before* : **16/03/2018**

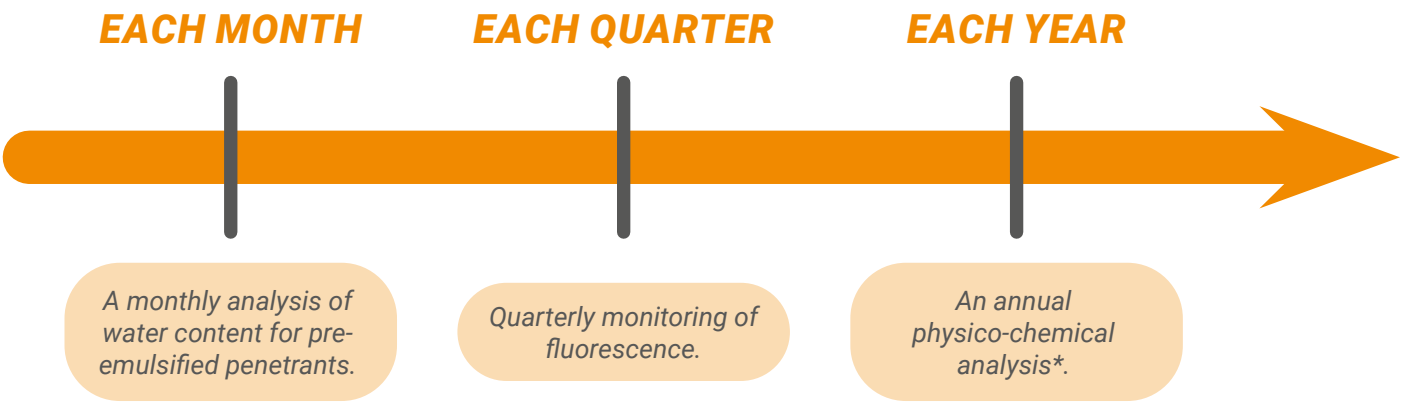
SHERWIN

ZI des Ebisoires – 15 rue des Frères Lumière – 78374 PLAISIR Cedex (FRANCE) – Téléphone : +33 (0) 1.30.80.81.82 – Télécopie/ Fax : +33 (0) 1.30.80.81.99

ANALYSIS

Some standards, requirements and specifications (AITM 6-1001, ASTM E1417, AMS 2644, DMC-0010, ISO 3452, NADCAP AC7114/1, etc.) recommend or require performing some analyses on pre and post-emulsified penetrants.

The **BABBCO** laboratory performs several types of analyses:



To perform analyses that will allow you to be in compliance with the various standards and requirements, simply send us a sample of your penetrant. We will send you the certificate of analysis as soon as possible.

** The annual physico-chemical analyses allow to statistically validate with great certainty a penetrant bath, in the case of large volumes it is a tool for monitoring the quality of the bath. This is essential in view of the financial value immobilized by the bath.*

The different analyses provided by BABBCO include:

- **Water content (pre-emulsified penetrants)**
- **Fluorescence brightness**
- **Washability (pre and post-emulsified penetrants)**
- **Sensitivity**
- **Density**
- **Contamination (by visual inspection) in accordance with ASTM E1417**
- **Colour intensity in accordance with ISO 3452-1**
- **Effectiveness of the emulsifier in accordance with DMC 010 and ASTM E1417**
- **Flashpoint**
- **Stability of the fluorescence in accordance with AMS 2644**
- **Thermal stability in accordance with AMS 2644**
- **The dosage of elements such as Chlorine, Fluorine, Sulfur and Bromine**

Non exhaustive list, please contact us.

PENETRANT TESTING

PENETRANT TESTING 13

- Coloured ▲ 14
- Fluorescent ▲ 18
- Products (process steps) 22
- Water treatment 34
- Reference panels 35
- Equipment 36

*All product photos are not contractual

COLOURED

STEP 1 - SURFACE PREPARATION



With alkaline cleaner or solvent by immersion or aspersion



Wipes



Hot water + alkaline cleaner



Solvent in spray can



Make sure that the discontinuities are clean.

STEP 2 - PENETRANT APPLICATION - DWELL TIME



Dip drain



Brush



Spray can



Electrostratic spraying



Let's the penetrant material enough time for entering the discontinuities.

STEP 3.3 - EXCESS PENETRANT REMOVAL (PRE-EMULSION)



Water moisturised sponge or rag



Water jet



Solvent moisturised sponge or rag



Wipes



Beware to do not overwash.

COLOURED

STEP 4 - DRYING



Forced air



Clean non fluffy rag



Compressed air low pressure



Warm air



Take care do not stain or polute.

STEP 5 - DEVELOPMENT



Spray can



High volume low pressure spray



A fine and uniform layer is mandatory to achieve convenient contrast & best sensitivity.

STEP 6 - INSPECTION & RECORDING



Inspection under cold white light



Observation with lighting magnifier



Digital recording



Adequate lighting lead to efficient inspection.

COLOURED ▲

PACKAGINGS (1/2)

	PRODUCT	LEVEL/FORM	METHOD	STANDARDS	MAIN FEATURES*
	STEP 1: SURFACE PREPARATION				
SKINCRIC	C-10/S1	/	/	ISO 3452-2	▲ ▲
SHERWIN	DR-62	/	/	AMS 2644	▲ ▲
babbco	N120	/	/	ISO 3452-2 PMUC	▲ ▲ PMUC
socomore	SOCOCLEAN A3432	/	/	/	
socomore	SYNCLAIR A/C	/	/	/	
socomore	COMORAL DXP	/	/	/	
socomore	COMORAL DSP	/	/	/	
socomore	DISCOVERT SOLVEST	/	/	/	
	STEP 2: PENETRANT APPLICATION - DWELL TIME				
babbco	BLEU PR 2	2	A/C	ISO 3452-2 PMUC	▲ PMUC
SHERWIN	DP-55	2	A/C	ISO 3452-2 AMS 2644 PMUC	▲ PMUC
babbco	DP-55 THIXO	2	C	ISO 3452-2	▲
babbco	EFXR-02	2	A/C	/	▲
SHERWIN	LTP 82	2	C	ISO 3452-2 ISO 3452-6	▲
SKINCRIC	P-138/SA	2	A/C	ISO 3452-2	▲
SHERWIN	PR-25	2	A/C	ISO 3452-2	▲
babbco	PRT 23E	2	A/C	ISO 3452-2 ISO 3452-5 PMUC	▲ PMUC

*See caption on page 4

Our products are available in different packaging sizes:

PACKAGINGS (2/2)

	PRODUCT	LEVEL/FORM	METHOD	STANDARDS	MAIN FEATURES*
	STEP 3.3: EXCESS PENETRANT REMOVAL (PRE-EMULSION)				
SHERWIN	DR-60	/	C	AMS 2644	
babbco	N106 A	/	C	ISO 3452-2 PMUC	PMUC
babbco	NT 101 B	/	C	ISO 3452-2 PMUC	PMUC
	STEP 4: DRYING				
socomore	SONTARA EC	/	C	/	
socomore	SOCOWIPE ROLL	/	C	/	
	STEP 5: DEVELOPMENT				
SHERWIN	D-100	d/e	/	ISO 3452-2 AMS 2644 PMUC	PMUC
SHERWIN	D-106	d/e	/	ISO 3452-2 AMS 2644 PMUC	PMUC
babbco	R60	d/e	/	ISO 3452-2	
SKINCRIC	R-764/S1	d/e	/	ISO 3452-2	
SHERWIN	D-110A.1	c	/	ISO 3452-2 AMS 2644	
babbco	RT 71	e	/	PMUC ISO 3452-5	PMUC

*See caption on page 4

Our products are available in different packaging sizes:

FLUORESCENT

STEP 1 - SURFACE PREPARATION



With alkaline cleaner or solvent by immersion or aspersion



Wipes



Hot water + alkaline cleaner



Solvent in spray can



Make sure that the discontinuities are clean.

STEP 2 - PENETRANT APPLICATION - DWELL TIME



Dip drain



Brush



Spray can



Electrostratic spraying



Let's the penetrant material enough time for entering the discontinuities.

STEP 3.1 - PENETRANT PRE-WASH (POST-EMULSION)



Water moisturised sponge or rag



Water jet



Air / water washing



STEP 3.2 - EMULSIFIER APPLICATION (POST-EMULSION)



Dip drain



Spray can



Emulsifier contact time should be less than 3 min generally in order to avoid over emulsifying.

FLUORESCENT

STEP 3.3 - EXCESS PENETRANT REMOVAL (PRE-EMULSION)



Dip drain



Water jet



Air / water washing



Be careful not to overwash the penetrant or emulsifier inside the discontinuities during this step under UV-A lighting.

OR

STEP 4 - DRYING

- Forced air
- Clean non fluffy rag
- Compressed air low pressure
- Warm air



Take care not to stain or pollute.

STEP 4 - WET DEVELOPMENT

- Dip drain

Spray or dip aqueous developers.

STEP 5 - DRY DEVELOPMENT

- Spray can
- Dust storm cabinet
- Electrostratic spraying
- Dip drain



A fine and uniform layer is mandatory to achieve convenient contrast & best sensitivity.

STEP 5 - DRYING

- Warm air



Take care not to stain or pollute.

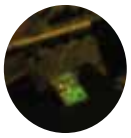
STEP 6 - INSPECTION & RECORDING



Inspection under UV-A light



Digital recording



Adequate UV-A or A Blue® lighting leads to efficient inspection.

FLUORESCENT

PACKAGINGS (1/2)

	PRODUCT	LEVEL/FORM	METHOD	STANDARDS	MAIN FEATURES*
	STEP 1: SURFACE PREPARATION				
SKINCRIC	C-10/S1	/	/	ISO 3452-2	
SHERWIN	DR-62	/	/	AMS 2644	
SHERWIN	LA-2	/	/	/	
babbco	N120	/	/	ISO 3452-2 PMUC	PMUC
socomore	SOCOCLEAN A3432	/	/	/	
socomore	SYNCLAIR A/C	/	/	/	
socomore	COMORAL DXP	/	/	/	
socomore	COMORAL DSP	/	/	/	
socomore	DISCOVERT SOLVEST	/	/	/	
	STEP 2: PENETRANT APPLICATION - DWELL TIME				
SHERWIN	RC-50	2	B/C/D	ISO 3452-2 AMS 2644	
SHERWIN	RC-55	2	B/C/D	ISO 3452-2 AMS 2644	
SHERWIN	RC-65	3	B/C/D	ISO 3452-2 AMS 2644	
SHERWIN	RC-77	4	B/C/D	ISO 3452-2 AMS 2644	
SKINCRIC	GP-05	½	A(W)	ISO 3452-2	
SKINCRIC	GP-10	1	A(W)	ISO 3452-2	
SKINCRIC	GP-20	2	A(W)	ISO 3452-2	
SHERWIN	WB-100	1	A(W)/C	ISO 3452-2 AMS 2644	
SHERWIN	HM-3A	2	A/C	ISO 3452-2 AMS 2644 PMUC	PMUC
babbco	FLUO THIXO	2	C	PMUC	PMUC
SHERWIN	HM-440	2	A/C	ISO 3452-2 AMS 2644	
SHERWIN	WB-200	2	A/C	ISO 3452-2 AMS 2644	
SHERWIN	HM-406	2+	A/C	ISO 3452-2 AMS 2644	
SHERWIN	HM-602	2+	A/C	ISO 3452-2 AMS 2644	
SHERWIN	HM-430	3	A/C	ISO 3452-2 AMS 2644	
SHERWIN	HM-604	3	A/C	ISO 3452-2 AMS 2644	
SHERWIN	HM-607	3	A/C	ISO 3452-2 AMS 2644	
SHERWIN	HM-704	4	A/C	ISO 3452-2 AMS 2644	

*See caption on page 4

FLUORESCENT

PACKAGINGS (2/2)

	PRODUCT	LEVEL/FORM	METHOD	STANDARDS	MAIN FEATURES*
SHERWIN	FGP20	2	A/C	AMS 2644 NFS	NSF
SHERWIN	FGP21	2	A/C	AMS 2644 NFS	NSF
	STEP 3.1: PENETRANT PRE-WASH (POST-EMULSION)				
	This step is done with water.				
	STEP 3.2: EMULSIFIER APPLICATION (POST-EMULSION)				
SHERWIN	ER-83B	/	D	ISO 3452-2 AMS 2644	
SHERWIN	ER-83C	/	D	ISO 3452-2 AMS 2644	
SHERWIN	ER-85	/	B	AMS 2644	
	STEP 3.3: EXCESS PENETRANT REMOVAL (PRE-EMULSION)				
SHERWIN	DR-60	/	C	AMS 2644	
babbco	N106 A	/	C	ISO 3452-2 PMUC	PMUC
	STEP 4: DRYING				
socomore	SONTARA EC	/	C	/	
socomore	SOCOWIPE ROLL	/	C	/	
	STEP 5: DEVELOPMENT				
SHERWIN	D-90G	a	/	ISO 3452-2 AMS 2644	
SHERWIN	D-113G.1	b	/	ISO 3452-2 AMS 2644	
SHERWIN	D-110A.1	c	/	ISO 3452-2 AMS 2644	
SHERWIN	D-100	d/e	/	ISO 3452-2 AMS 2644 PMUC	PMUC
SHERWIN	D-106	d/e	/	ISO 3452-2 AMS 2644 PMUC	PMUC
babbco	R60	d/e	/	ISO 3452-2	
SKINCRIC	R-764/S1	d/e	/	ISO 3452-2	

*See caption on page 4

Our products are available in different packaging sizes:

STEP 1

C-10/S1 ▲ ▲

Volatile cleaner and degreaser
- Removes grease and pollutants from mechanical and electrical parts.
- Used for degreasing or removing the excess of penetrant.
- After cleaning, parts are perfectly clean and dry, with no greasy residue.



DR-62 ▲ ▲

Volatile cleaner and degreaser
- Powerful and fast evaporating solvent, QPL AMS 2644 approved for aerospace.
- Volatile, able to move water away from discontinuities.



LA-2 ▲ ▲

Alkaline degreaser
- Excellent general purpose alkaline detergent for parts moderately polluted with organic matter.
- Straw yellow liquid.
- Low foaming.
- Does not leave any white marks.
- Works at low temperature.
- Non-flammable.



N120 ▲ ▲

Volatile degreaser
- Removes a large amount of pollutants through its broad range of action.
- Evaporates quickly, leaving discontinuities 'empty'.
- Use on wipes for localized cleaning operations.

PMUC



SOCOMORE products range

- **Diestone DLS :** Degreasing cleaning product with surfactant action, available in a PMUC version. Liquid and wipe formats available on request – please contact us
- **Discovert Solvest :** resin, polyester and adhesive cleaning solvent (only available for aerospace industry)

STEP 2

Type I / Level ½

GP-05

Water-based fluorescent penetrant

- Designed for industrial dye penetrant testing aiming to optimize usage and wastewater treatment costs.
- It offers the best compromise between reliable detection and environmental friendliness thanks to its low viscosity, low COD/BOD ratio, and reduced rinse water consumption.
- It has excellent self-revealing properties while remaining compatible with conventional developers.



Type I / Level 1

GP-10

Water-based biodegradable fluorescent penetrant

- The best combination between performance, operator H&S and environmental impact: low VOC, low COD/BOD ratio, low viscosity, requires little water for washing.
- Designed to meet the requirements of the NDT market, both conventional and penetrant.
- Use with or without a developer.



WB-100

Water-based fluorescent penetrant

- Easy to rince with water, bio-degradable, water-base fluorescent penetrant.
- Contains no oil or petroleum distillates.
- Waste treatment and disposal costs are reduced.
- Has exceptional self-developing properties.



Type I / Level 2

RC-50

Post-emulsifiable fluorescent penetrant

- Low viscosity, an advantage when working in immersion as it ensures a low consumption of penetrant.
- The thin layer of penetrant remaining on the part will require little emulsifier.



STEP 2

RC-55

Post-emulsifiable fluorescent penetrant

- Detection of discontinuities is close to that of a sensitivity Level 3.
- Odourless.



GP-20

Water-based fluorescent penetrant

- Intended for the detection of surface defects requiring increased sensitivity while minimizing environmental impact.
- Its specific formulation reduces the consumption of product and rinse water, ensuring optimization of operational costs and waste treatment.
- Particularly effective with or without developer, it combines detection performance, operator safety, and a low environmental footprint.



HM-3A

Fluorescent penetrant

- Appreciated in the aerospace industry for its intrinsic characteristics.
- Heavily concentrated with optical brighteners: very bright, green-yellow indication.
- Water washable.
- Very low fluorescent background, high contrast ratio, low viscosity: low consumption driven by on parts compared to same sensitivity level penetrants.

PMUC



FLUO THIXO

Thixotropic fluorescent penetrant

- Very useful when no Fluorescent Penetrant is expected.
- Used for mating face inspections (valve sealing).
- It is, in this situation, much more efficient than Prussian blue.

PMUC



HM-440

Biodegradable fluorescent penetrant

- Very high biodegradability.
- Product free of petroleum distillates.
- Yellow-green colour.
- First biodegradable penetrant with low viscosity (unlike conventional biodegradable penetrants which are less fluid and thicker).
- Suitable for tanks (low consumption and a high drainage recovery rate).



STEP 2

WB-200

Water-based fluorescent penetrant

- Easy to rinse with water, bio-degradable, water-base fluorescent penetrant.
- Contains no oil or petroleum distillates.
- Waste treatment and disposal costs are lower than with conventional penetrants.
- Has exceptional self-developing properties.



FGP-20

Food Grade Penetrant FGP-20

- Capillary liquid penetrant with sensitivity 2.
- Can be used in fluorescent penetrant testing under UV-A or A-blue, as well as in through capillarity for the inspection of heat exchanger plates or any other open & closed circuit in leak detection.
- Ready-to-use, water-based, biodegradable product.
- Anti-corrosion function allowing its use on all metals.
- Authorised for the control of parts in contact with food, after total cleaning of the traces of penetrant, according to the recommendations of the NSF USA (NSF Nonfood Compounds Registration Program NSF International | The Public Health and Safety Organization).



STEP 2

FGP-21

Food Grade Penetrant FGP-21

- Capillary liquid penetrant with sensitivity 2.
- Can be used in fluorescent penetrant testing under UV-A or A-blue, as well as in through capillarity for the inspection of heat exchanger plates or any other open & closed circuit in leak detection.
- No anti-corrosion function and is to be preferred on parts and circuits not sensitive to corrosion.
- Ready-to-use, water-based product.
- Authorised for the inspection of parts in contact with food, after total cleaning of all traces of penetrant, according to the recommendations of the NSF USA (NSF Nonfood Compounds Registration Program NSF International | The Public Health and Safety Organization).



Type I / Level 2+

HM-406

Fluorescent penetrant

- «High» sensitivity level According to *Pratt&Whitney* specification.
- High sensitivity.
- Advanced or superior resistance to overwashing.



HM-602

Biodegradable fluorescent penetrant

- Very high biodegradability.
- Product free of petroleum distillates.
- Water washable.



Type I / Level 3

HM-430

Fluorescent penetrant

- Superior resistance to overwashing.
- Low fluorescent background.
- Optimised colorimetry.
- Water washable.



HM-604

Biodegradable fluorescent penetrant

- Very high biodegradability.
- Product free of petroleum distillates: a non-oil, biodegradable synthetic base that facilitates disposal and/or waste treatment.
- Water washable.



STEP 2

HM-607 ▲

Biodegradable fluorescent penetrant

- Odourless.
- Free of petroleum distillates, a biodegradable synthetic base facilitating the disposal and/or treatment of wastewater.
- High sensitivity.
- Water washable.



RC-65 ▲

Post-emulsifiable fluorescent penetrant

- Brilliant penetrant for its sensitivity level.
- The detection of discontinuities is close to that obtained with a sensitivity Level 4.
- The low viscosity of this penetrant ensures a lower consumption of penetrant (by immersion), a fast pre-rinse (time saving), and a slowed down saturation of the emulsifier bath (little penetrant remaining to emulsify after the pre-wash).



Type I / Level 4

HM-704 ▲

Biodegradable fluorescent penetrant

- Odourless.
- A synthetic base, allowing relatively easy washing while leaving an acceptable level of fluorescent background, considering the high levels of sensitivities proposed.



RC-77 ▲

Post-emulsifiable fluorescent penetrant

- Is the reference Level 4 of AMS 2644 and ISO 3452-2.
- The level of fluorescence helps to ensure safe detection.



Type II / Level 2

BLEU PR 2 ▲

Thixotropic blue penetrant

- Developed at the request of *EDF* to inspect and test the seal on valves (seal, needle, etc.).
- Easy to apply thanks to its thixotropic properties.
- Easy to read, dense in colour.
- Can also be used as a penetrant.



DP-55 ▲

Red dye penetrant

- Water-washable.
- Overwashing resistant.
- Free of Rhodamine and Azo III A2 amine (diazo).



STEP 2

DP-55 THIXO ▲



Thixotropic red penetrant
- Water-washable.
- Overwashing resistant.
- Free of Rhodamine and Azo III A2 amine (diazo).
- For local applications or to avoid penetrant runs.
- Can be removed with a damp sponge or cloth.
- Development is done with a non aqueous wet developer.

EFXR-02 ▲





Biodegradable red dye penetrant
- Easy to wash with water.
- Contains no petroleum solvents.
- The effluent processing cost is lower.
- The environment is protected.
- Has a tridye formulation for an optimal contrast.
- Also available as a spray can.

LTP 82 ▲





Low temperature red dye penetrant
- Solvent removable penetrant.
- Detects discontinuities between -30°C and +10°C.
- Free of Rhodamine and Azo III A2 amine (diazo).

P-138/SA ▲



Red dye penetrant
- Provides good contrast.
- Resistant to overwashing, little red background.
- Usable from 10 to 50°C.

PR-25 ▲



Red dye penetrant
- Low cost.
- High sensitivity.
- Ideal colorimetry, bi dye.
- Good rinsability.
- Free of Rhodamine and Azo III A2 amine (diazo).

PRT 23E ▲





High temperature red dye penetrant
- Easily water washable.
- Suitable for use from 0°C to 200°C, particularly with high temperatures.
- In welding, use between passes during pre or post-heating.
- At 200°C, penetration is a few tenths of a second.

STEP 3.2

ER-83B ▲

Hydrophilic emulsifier

- Used to remove excess penetrant from the surface.
- Dilutable range from 0 to 30 %: very high maximum concentration.
- Only surfacic emulsification effect and not complete solvation: little risk of over-emulsification.
- It is free of alkyl phenol ethoxylates (APE).
- It is the unique emulsifier with an integrated anti-corrosion function.



ER-83C ▲

Hydrophilic emulsifier

- Used to remove excess penetrant from the surface.
- Dilutable range from 0 to 30 %: very high maximum concentration.
- Only surfacic emulsification effect and not complete solvation: little risk of over-emulsification.



ER-85 ▲

Lypophilic emulsifier

- Used to remove excess penetrant from the surface.
- There is no “pre-wash” with this method, and the emulsifier is used as is.



STEP 3.3

DR-60 ▲ ▲

Cleaner - degreaser
- Hydrocarbon-based.
- Strong solvent for pre-washing and removing excess penetrant from part surfaces.



N106 A ▲ ▲

Cleaner
- Removes excess penetrant from the surface, without using water.
- Low volatility.
- Eliminates excessive fluorescent or red background, making interpretation easier.
- Use on wipes for localized cleaning operations.
- Also available as pre-saturated wipes



NT 101 B ▲

High temperature cleaner
- Designed to remove high temperature red dye penetrant from hot parts (120 to 200°C).
- Use with a water dampened cloth to remove excess penetrant.
- Do not spray directly onto the part.



STEP 5

D-90G ▲

Dry powder developer

- It has an exceptional resistance against blows from air guns that are very severe or “dipping” in dust storm cabinet.
- Fluid enough and does not make clusters on the surface for development and inspection.
- Parts have a matt finish and UV reflections are reduced.
- 100% mineral powder.



D-113G.1 ▲

Water-soluble developer

- Powder to mix with water to form a clear liquid, which dries on the piece in a uniform layer.



D-100 ▲ ▲

Solvent-based developer

- Extremely white layer and tense aspect.
- The specific grain size and quality of the components are exceptional.
- Non aqueous wet developper, giving enhanced sensitivity for locating tight, incipient flaws.

PMUC



D-106 ▲ ▲

Low temperature solvent-based developer

- Quick drying, non aqueous wet developer.
- Its average particle size makes it a very versatile developer.
- Preferable for temperatures below 12 °C.

PMUC



R60 ▲ ▲

Solvent-based developer

- Gives good results with all *BABBCO* penetrants.
- Surfactant system included.



STEP 5

R-764/S1 ▲ ▲

Solvent-based developer

- Mixture of organic solvent and powders.



D-110A.1 ▲ ▲

Water-suspendable developer

- Powdered mixture of white particles, inhibitors and wetting agents to be diluted in water to form a suspension of white particles, which dries on the piece in a uniform white layer.
- Under black light inspection, reveals the location of cracks, pores, and similar flaws.



RT 71 ▲

High temperature solvent-based developer

- Perfect for use at temperature above 50°C.
- At 200°C, developing time take no more than a few seconds.



PMUC



STEP 6

Refillable markers

Red version

- This refillable marker (supplied with 12 refills) is suitable for all surfaces and allows for visible marking under UV-A. Low content of halogen (<200 ppm) and sulphur (<250 ppm) and low-melting-point metals (<250 ppm).



White version

- Refillable and erasable marker that can be used in any safety on all surfaces. The marks are easily erased at water. It comes with 12 white mines. Ideal for writing on films radiographs developed. Sold with 12 mines refill



Ultra local application markers ▲ ▲

SL 600 version

- Marker for localized penetrant application.
- Single use marker to fill.
- Marking size: 18x5 mm.



Lint-free, smooth swabs ▲

- Lint free, dense cotton swabs for “wipe-off” technique.
- No risk to NDT (less expansion of the dense cotton from the small quantity of solvent involved).
- Available with a pointed (SC7) or round (SC3) end.
- Maximum diameter at the end is 3 mm, length of cotton tip is 1 cm.
- Total length is 7.5 cm. Wooden stick with single tip has a length of 15 cm.



Micro-volume dispenser ▲

- 120 ml micro dispenser.
- For small quantities of solvent, used for “wipe-off” technique.
- Prevents spillage from solvent-filled containers and reduces VOC emissions.
- Use with wipes, swabs or brush.



STEP 6

SAFRAN charts ▲ ▲



Fluorescent visualisation tool
- Board of microporosity for *SAFRAN* purpose.
- Standard and wiping methods.

Magnifiers ▲ ▲

- **Triple** magnifiers in aluminum casing 3x 4x 5x lenses. Magnification from 3 to 12x by combining lenses.
- 6x (3&4),
- 7x (3&5),
- 8x (4&5),
- 12x (3&4&5)



25x microscope ▲ ▲

- Using the crosshair, this pocket microscope enables you to size penetrant testing indications of 5 mm in length, with a resolution of 50 µm (5/100 mm).
- The fluorescent penetrant indications can be illuminated for inspection by a UV-A lamp by the recess of the base, and visualised for measurement under a mixed light.
- Suitable for inspection: *AIRBUS* AITM 6-1001, appendix F, table F.1





Sizing gauges ▲

- Set of gauges from 0.45 mm to 1.50 mm in 20 points, and 1.50 mm to 3 mm in 16 points, for sizing under UV-A by masking indications.



Sizing test panels ▲

Fluorescent comparator (TAM 135273)
- Instant viewing of the linear or circular indication dimensions.
- The TAM strip enables you to size and compare the indications in fluorescent penetrant / magnetic particle inspection, directly under UV-A light at the time of the inspection.



Flaw dimension tool (TAM 190466)
- Set of 10 tabs in plexiglass ranging from 0.005 to 0.125 inches ranging from 0.13 to 3.17 mm.



WATER TREATMENT

CA30



Activated carbon

- Active charcoal in granular prepared from coal, peat, etc. activated with steam at high temperature.
- The coal is particularly recommended for any process in liquid phase treatment and discoloration of water from penetrant testing.

T50



Corrosion inhibitor

- Additive intended, among other things, to be injected by a dosing pump into equipment using running water, for example to rinse parts when performing a dye penetrant inspection, when the parts are easily corroded.

DNE



Anti-foam

- Used for foam-type washing stations.
- Non-silicone defoamer for aqueous environments, particularly strongly basic ones, but not exclusively.
- It is anionic.
- It forms stable emulsions in water.

FSP3



Flocculant

- FSP3 is a penetrant separation flocculant
- Flocculant for water polluted by organic products.
- It significantly reduces the consumption of activated carbon and allows
- pollutants to be stabilized in sludge.
- There is no release through leaching.

REFERENCE PANELS

European test panel ▲ ▲

- 5 star discontinuities and 4 roughness ranges for overall penetrant process in red dye or fluorescent.



Tesco panel ▲ ▲

- Single or twin in a protective box.
- Available in 10, 20, 30, 50 µm: denotes the thickness of the chrome linear discontinuities (their width is 1/20th of the chromium layer thickness).



PSM-5 test panel ▲ ▲

- Available in P version (polished) and G version (gritted/sandblasted).
- Meets *PRATT & WHITNEY*, *GENERAL ELECTRIC*, etc. specifications.



NR-5 test panel ▲ ▲

- Presents a true progressivity in monitoring the penetrant testing process and will alert you to the slightest drift, which is the primary purpose of a checking.
- Half shim polished half sanded with 5 indications sizing.



Twin KDS panel ▲ ▲

- Identical twins, use alone or as a pair.



WTP 1 test panel ▲ ▲

- Two areas of identical roughness for washability test.
- Steel AISI321, sanded alumina grade 120.



Bakelite panels ▲ ▲

- Contains 1, 2 or 3 discontinuities.
- The panels are disposable and cannot be used to measure the sensitivity of the products or process.
- Sold in sets of 100.



ASME aluminium test block ▲ ▲

- Use with high temperature penetrant testing in accordance with ISO 3452-5 Annex A penetrants comparator.
- Can be reused several times with the same products.
- Overall summary test.



REFERENCE PANELS

KC-Qpons

- The KC coupon is a small chrome-plated metal shim, beveled on the back, featuring a cracking star, used for controlling the penetrant inspection process and can replace bakelite shims.
- Reusable and can be cleaned with ultrasound using a safe solvent.
- UV-A inspection is essential after cleaning to ensure the penetrant is removed before the next use.



EQUIPMENT

Surface roughness test ▲ ▲



- Contains 30 samples of 7/8" x 3/8" nickel plates to quickly assess the surface finish for six of the most common machining methods.
- The marks for each type of finish are in AA and the metric equivalent Ra.
- The standard gives the inspector a realistic idea of the appearance and texture of the machined components.
- Instructions and the CLA / Ra / AA correlation graph are included.
- Calibrated unit includes the optional certified N.I.S.T calibration report.

	Samples	Marked size (AA values)
Polishing	3	2, 4, 8µ"
Bore	3	16, 32, 63µ"
Grinding	6	2, 4, 8, 32, 63µ"
Milling H	6	16, 32, 63, 125, 250, 500µ"
Milling V	6	6, 16, 32, 63, 125, 250, 500µ"
Turning	6	6, 16, 32, 63, 125, 250, 500µ"

Regulation system ▲ ▲



- Inox hydro-pneumatic and pneumatic boxes.
- Regulation boxes of air, water, air and water, for penetrant inspection.
- Option: set with non-stop water temperature measurement.
- Supplied with certificates.

Venturi vacuum ▲ ▲



- Small Venturi to aspirate/rinse effluent to retention areas.
- Supplied with 3 metres of hose.

CPB94 sprayer ▲ ▲



- Pressure vessel of compressed air.
- Refillable for spraying bulk liquids (PT and MT).
- Car valve (schraeder type).

Powdering bulb for dry FPI developer ▲ ▲



- Made of glass, stainless steel and silicone.
- Easy to use.
- The applicator allows you to control the amount and direction of the product to provide an optimal application.
- Capacity: 500 milliliters.

EQUIPMENT

Air/water spray guns ▲ ▲









Long barrel model (22 cm)
- Reduces water to fine particles, producing a very soft mist, this non-aggressive application is ideal for pre-emulsified penetrants.
- Weight 950 g , 4-8 bar, 12 mm diameter for water, ¼" for air.

Compact model (10 cm)
- Very convenient, single handle simultaneously controls the air and water, light and handy.
- Weight 440 g , 1-6 bar, 12 mm diameter for water, ¼" for air.

Low-cost
- Adjustable air/water flow using thumb wheels.

Premium
- Excellent results regardless of the settings, adjustable water wheel.
- Weight 780 g , 1-7 bar, 12 mm diameter for water, ¼" for air.

Water spray guns ▲ ▲





Simple version
- Generation of fine spray/mist.
- Full cone.
- TG10 nozzle.

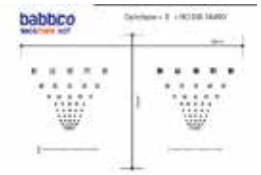
WG-1 version
- A robust spray gun recommended by *BOEING* and compliant with MIL-I-6866 and ASTM E 1417 requirements.
- The gun is available with or without the full jet nozzle that emits coarse spray without air pressure.

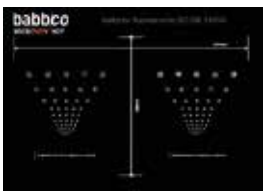
Aerosol handle ▲ ▲



- This handle allows very easy gripping of the aerosol cans for a better controlled and more careful work during spraying.
- The integrated trigger allows fatigue-free spray control.

Optotype charts ▲ ▲





Fluorescent visualisation tool
- High definition chart according to ISO 18490.
- Used to inspect near visual acuity to EN 4179.
- Black on white.
- Variation: negative version, white on black (can be used under UV-A).

EQUIPMENT

Refractometers

Range of refractometers with temperature correction, reference curve (in option), for direct immersion in tanks.



RCT 0-18
- Analogue refractometer with tilting flap.
- Measuring range from 0 to 18% brix, reading accuracy 0.5% brix.



PAL 1
- Digital refractometer with waterproof cup.
- Dual scale from 0 to 85% brix and 0 to 45° Baumé, autoplay, resolution 0.1% brix.

RCT 0-32
- Digital refractometer with waterproof cup.
- Measuring range from 0 to 32% brix, reading accuracy 0.1% brix.



PEN-PRO
- Digital immersion refractometer.
- Measuring range from 0 to 85% brix, resolution 0.1% brix, measurement accuracy 0.2% brix.

Kiray 100 thermometer



- Infrared thermometer with double laser sight from -50 to +800°C with certificate.
- 4 digits with backlit LCD screen.
- Flashing signal on the screen and audible signal with adjustable thresholds.
- 20 hours autonomy.
- Dimensions: 145 x 95 x 40 mm - Weight: 180 g (battery included).
- Supplied in a holster cover with belt loop.

TK61 thermometer



- Contact thermocouple K probe by 13 mm pad type SCDK-150 (-20 to +150°C), 4.5 mm stainless steel plunger.
- Length 150 mm with handle, miniature male compensated connector.
- Class 1 thermocouple K immersion probe type SIDK-150 (-40 to +250°C), 4.5 mm stainless steel plunger.

EQUIPMENT

Training kits ▲ ▲



- Real artificial discontinuities.
- Set of teaching materials and training parts.
- Several standard sets in different methods are offered.
- Fake specimens are available in different materials, with different types of discontinuities (RT, PT, MT, US, VT).

UTE 3 inspection scale



- Verification of inspector's visual acuity and verification of inspection conditions.
- 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 the scale, inspection must wait until visual adaptation is complete.

Backlight timer



- Magnetic digital timer with touch screen.
- Countdown from 99 minutes 59 seconds.
- Backlighting.
- White light display.

EDT 8002 timer



Digital timer with countup and countdown.

- Possibility to record up to three countdown times.
- Power supply: 2 LR03 batteries, not included.
- Product dimensions, width : 91 mm
- Model: Single line
- Timer time: 99 min/59 s

MAGNETIC TESTING

MAGNETIC TESTING 42

- Magnetic testing 43
- Products (process steps) 46
- Electromagnets 52
- Indicators 55
- Measuring devices 57
- Equipment 59

*All product photos are not contractual

MAGNETIC TESTING

STEP 1 - SURFACE PREPARATION



With alkaline cleaner or solvent by immersion or aspersion



Mechanical etching



Hot water + alkaline cleaner



Solvent in spray can

Make sure that the discontinuities are clean.

STEP 2 - WHITE CONTRAST OIL-PAINT DEPOSIT*



Spray can

*Only if it is necessary for black and white magnetic testing, and if there is no coating which can serve as a contrast background.



Apply fine and uniforme layer.

STEP 3 - MAGNETIZING



The equipment used for the magnetization are:
portable electromagnets, power generators, magnetic particle test benches, permanent magnets.



STEP 4 - DEVELOPMENT



Spray can



Spraying gun



Squeeze bottle

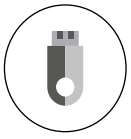


Produce a streaming of the magnetic product on the part to be checked.

STEP 5 - INSPECTION & RECORDING



Inspection under cold white or UV-A light



Digital recording



Adequate lighting lead to efficient inspection.

MAGNETIC TESTING

PACKAGINGS (1/2)

		PRODUCT	STANDARDS	MAIN FEATURES*
		STEP 1: SURFACE PREPARATION		
babbco		B 105	ISO 9934-2 PMUC	▲ ▲ PMUC
babbco		SAFE 105	PMUC	▲ ▲ PMUC
socomore		SOCOCLEAN A3432		
socomore		SYNCLAIR A/C		
socomore		COMORAL DXP		
socomore		COMORAL DSP		
socomore		DISCOVERT SOLVEST		
		STEP 2: WHITE CONTRAST OIL-PAINT DEPOSIT		
babbco		B 102 A	ISO 9934-2	▲
babbco		B 104 B	ISO 9934-2 PMUC	▲ PMUC
		STEP 3: MAGNETIZING		
		This step is done with an electromagnet.		
		STEP 4: DEVELOPMENT (1/2)		
		FLUORESCENT DEVELOPERS ▲		
babbco	Liquids	B 101 C	ISO 9934-2 / AMS 2641 AMS 3046 / PMUC	▲ PMUC
babbco	Liquids	KP25	ISO 9934-2 / AMS 2641 AMS 3045	▲
babbco	Liquids	KP118	ISO 9934-2 / AMS 2641 AMS 3045	▲
babbco	Liquids	WCF17B	ISO 9934-2	▲ 💧
babbco	Liquids	SAFE 778C	ISO 9934-2 PMUC	▲ 💧 PMUC
babbco	Liquids	SAFE 850A	ISO 9934-2 AMS 3042	▲ ▲ 💧
babbco	Liquids	K9300P	ISO 9934-2 AMS 2641	▲ ▲
babbco	Powders	LY2500	ISO 9934-2 AMS 3044	▲
babbco	Powders	MG118	ISO 9934-2 AMS 3044	▲
babbco	Powders	SY8000	ISO 9934-2 AMS 3044	▲

*See caption on page 4

Our products are available in different packaging sizes:

MAGNETIC TESTING

PACKAGINGS (2/2)

	PRODUCT	STANDARDS	MAIN FEATURES*
	STEP 4: DEVELOPMENT (2/2)		
	COLOURED DEVELOPERS ▲		
babbco	Liquids — B 103C	ISO 9934-2 / AMS 2641 AMS 3043 / PMUC	▲ PMUC
babbco	KP42A	ISO 9934-2 / AMS 2641 AMS 3041 / PMUC	▲ PMUC
babbco	WCB42	ISO 9934-2 PMUC	▲ 💧 PMUC
babbco	SAFE 820C	ISO 9934-2	▲ 💧
babbco	SAFE 850A	ISO 9934-2 AMS 3042	▲ ▲ 💧
babbco	K9300P	ISO 9934-2 AMS 2641	▲ ▲
babbco	Powders — BP42	ISO 9934-2 AMS 3042	▲
babbco	DP68	ISO 9934-2 AMS 3040	▲

*See caption on page 4

Our products are available in different packaging sizes:

STEP 1

B 105 ▲▲

Solvent - degreaser

- Primarily to wipe off the white background used for magnetic testing.
- Can also be used as a degreasing agent prior to penetrant testing (rapid evaporation).

PMUC



SAFE 105 ▲▲

Cleaner - degreaser

- Primarily to wipe off the white background used for magnetic testing.
- Can also be used as a degreasing agent in general mechanics.
- Medium evaporation rate (positive flash point) to extend the effect time.

PMUC



DISCOVERT SOLVEST

Solvent - Cleaner

- Zero VOC.
- Safety cleaning solvent.
- Use in US or without heating tanks to prepare the reference parts for penetrant testing.



STEP 2

B 102 A ▲



Peelable white contrast aid paint

- White peel-off lacquer, average layer thickness of 30 µm very easy to remove by peeling and brushing.
- A fast drying paint with great coverage, it can be used as a contrast agent for any black or red magnetic developer.
- Offers considerable time saving for magnetic particle testing when removal of the white background is required after inspection.
- Almost no obstruction.

B 104 B ▲



White contrast aid paint

- Thin and smooth layer favorising a good wetting of developers with an aqueous support as with an oil support.
- Minimum covering thickness around 20 µm.
- Excellent particle mobility.
- Coverage increased compared to the A version.
- On average up to +17% in length and +9% in covered surface.
- Drying time shortened by 20%.
- In case of exceeding the maximum authorized thickness of 50 µm (EN ISO 9934-1), the product begins to generate vertical drips which alerts the inspector and secures the control.

STEP 4

LIQUIDS

B 101 C ▲

Fluorescent magnetic ink, organic suspension
- Very fine.
- Very stable.
- Available in two versions: PMUC and ASME (only for barrel).

PMUC



KP25 ▲

Fluorescent magnetic ink, organic suspension
- Zero VOC.
- Approved by *DASSAULT*, *ROLLS-ROYCE* and *SAFRAN*.
- The particles size makes it a very advanced detection product.
- Ideal for machined surfaces.
- The organic suspension has been improved to support high contrast and fewer purple reflections.
- Slow sedimentation, very fast resuspension of particles, almost no risk of untimely deposit of powder in the tanks.



KP118 ▲

Fluorescent magnetic ink, organic suspension
- Zero VOC.
- Extremely bright powder for very clear indications and minimal fluorescent background, even on rough surfaces.
- Very versatile magnetic ink with average particle sized powder.
- Flash point of 100 °C.



WCF17B ▲

Fluorescent magnetic ink, aqueous suspension
- Box with : powder with an anti-corrosion, wetting and anti-foaming agent.
- Very effective developer for a minimal cost (to be diluted in water).
- Use on the site with a sprayer or on bench.
- Precautions: degrease parts well.
- Do not allow to freeze.





STEP 4

SAFE 778C ▲

Fluorescent magnetic ink, aqueous suspension

- It is a very fine and stable product containing anticorrosion, wetting and dispersing additives.
- Yellow-green colour for inspection under UV-A lighting.
- Very low odor.
- Very low sulfur and halogens contents.
- Temporary frost resistance, down to -10°C (concentrate form).
- Available in spray can and concentrate to be diluted in water





SAFE 850A ▲ ▲

Red and fluorescent magnetic ink, aqueous suspension

- Zero VOC.
- Very thin.
- Very stable.
- Odourless.
- Detection with or without a contrast aid paint application.
- Saves time on site.





B 103C ▲

Black magnetic ink, organic suspension

- Zero VOC.
- High sensitivity.
- Very thin powder.
- Shipped in spray cans.





KP42A ▲

Black magnetic ink, organic suspension

- Zero VOC.
- High sensitivity.
- Very thin powder.
- Moderately loaded with particles for a good indication/background contrast ratio and an easy detection.
- Flash point of 60°C.
- Available in two versions: PMUC and ASME.





STEP 4

WCB42 ▲

Black magnetic ink, aqueous suspension

- Contains an anti-corrosion, wetting and anti-foaming agent (to be diluted in water).
- High performance developer for a minimal cost.
- Use on site with a sprayer or on bench.
- Precautions: degrease parts well.
- Do not allow to freeze.



SAFE 820C ▲

Black magnetic ink, aqueous suspension

- Odourless.
- Inspection under white light.
- Very fine, very stable, available in aerosol.
- Usable with all magnetic generators.
- Also available in concentrate, for dilution with water.



K9300P ▲ ▲

Special oil for magnetic particle testing

- Zero VOC.
- Odourless.
- Dearomatized dilution oil, flash point >100°C.
- Conform to AMS 2641 Type 1.



STEP 4

POWDERS

LY2500 ▲



Fluorescent magnetic powder
- Ultra-fine fluorescent magnetic powder.
- High attachment to magnetic flux leakage fields.

MG118 ▲



Fluorescent magnetic powder
- Excellent brightness, little fluorescent background, for use on all parts.
- Excellent results on rough surfaces.

SY8000 ▲



Fluorescent magnetic powder
- Versatile.
- High performance powder: *SNCF* approval.

BP42 ▲



Black magnetic powder
- Black, very fine, very stable.
- For high quality magnetic inspections under ordinary light.

DP68 ▲



Dry magnetic powder
- Blue, for fast inspection without a white contrast aid paint.
- For use in high temperatures (427°C).

ELECTROMAGNETS

B 100 S

- Delivered with a carry case and certificate of conformity.
- The switch is located under the index finger.
- Alternating field.
- Can be dismantled for easy maintenance.
- Can be repaired.

Weight: 2.95 kg
Maximum pole spacing: 0 to 260 mm
Lifting capacity: 6 kg



B 300 S / B 48 AC

- Reinforced cable output.
- Delivered with a carry case and a certificate of conformity.
- Resistant to water spray, steam or liquids.
- Alternating field.
- Encapsulated in resin, the electrical circuit is particularly protected.
- Only the cable and the switch can be changed.
- The switch is located under the index finger.
- Available in low voltage: **B 48 AC**, 48V.

Weight: 3.4 kg
Maximum pole spacing: 260 mm
Lifting capacity: 6 kg



B 310 S / B 142

- Reinforced cable output.
- Is the smallest electromagnet in the range and is exceptionally easy to handle.
- Delivered with a carry case and a certificate of conformity.
- Splash proof.
- Alternating field.
- Encapsulated in resin, the electrical circuit is particularly protected.
- The switch is located under the thumb
- Available in low voltage: **B 142**, 42V.

Weight: 3.1 kg
Maximum pole spacing: 205 mm
Lifting capacity: 5 kg



ELECTROMAGNETS

DA 200 S / A 48 AC



- Comes with an alternating/half-wave rectified switch and is one of the most powerful electromagnets in the range.
- Powerful magnetic circuit to work on large parts or loaded alloys in the workshop.
- Delivered with a carry case and a certificate of conformity.
- Handle for grip to reduce hand fatigue.
- The switch is located under the thumb.
- Can be dismantled for easy maintenance.

Weight: 5.8 kg
Maximum pole spacing: 400 mm
Lifting capacity: DA 200 S & A 48 alternating: 11 kg

A 410 S / A 448 / DA 400 S



- Can be dismantled and repaired.
- Delivered with carry case and certificate of conformity.
- These metalloscopes have the advantage of a handle for grip and to reduce hand fatigue.
- The switch is located under the thumb.
- Constructed with removal housing for maintenance or repairs in the event of a fall.
- Very popular device among service providers.
- Reduced exposure to the magnetic field thanks to the handle (European directive 2013/35/EU).

Weight: 3.6 kg
Maximum pole spacing: 255 mm
Lifting capacity: A 448: 5 kg
A 410 S or DA 400 S alternating: 7 kg
DA 400 S in R1A (rectified in alternation): more than 18 kg

B 200 S



- Can be dismantled/repaired.
- Delivered with carry case and certificate of conformity.
- Reduced heating of device and operator hand.
- Improved power factor at 0.5.
- 2 offset side coils on the handle reduce exposure to the magnetic field.
- Refined, oval grip allows for efficient grip.
- Oversized switch under index finger.
- Ultra-soft iron arms for better magnetic field guidance in the part, 2 joints, maximum spacing of 30 cm.

Weight: 3.18 kg
Maximum pole spacing: 254 mm
Lifting capacity: >44 N

ELECTROMAGNETS

MY2

- Lighter and more compact.
- Resistant to water spray, steam or liquids.
- Delivered with a carry case and a certificate of conformity.
- Of molded construction, it cannot be dismantled.
- Encapsulated in resin, the electrical circuit is particularly protected.
- Only the cable and the switch can be changed.
- The switch is located under the index finger.
- Alternating field.
- Cable: 4 meters (solvent resistant).



Weight: 2.4 kg
Maximum pole spacing: 160 mm
Lifting capacity: 5.4 kg

Power-Pack

- Available in 230V AC (PP-230) and 48V AC (PP-48).
- Delivered with a carrying strap to avoid interference your movements.
- Briefcase presentation makes travel easier.
- Its compactness allows it to also be transportable in a backpack professional.
- It can be used with your own metalloscopes.
- Its low voltage version (PP-48) allows you to work in capacity.
- Autonomy allows you to work for more than half a day without having to recharge the battery.
- Weight: 4.2kg for PP230 & PP48.
- Dimensions: 31x12x25 cm.
- IP 54 International Protection Index.
- Audible signal when the battery is almost empty.
- Can get on a plane.



INDICATORS

The Berthold Cross

- Consists of a remanence-free shielding ring surrounding an iron cylinder covered by a thin brass plate.
- The cylinder is divided into four quarters by cuts which simulate artificial flaws in the form of a cross.
- To determine magnetizing efficiency, turn the shielding ring slowly to increase the distance of the brass plate from the test piece.



ASME indicator

- Consists of 8 carbon steel triangles, soldered together.
- A copper film about 0.25 mm thick covers everything.
- The best drawn lines are those that are perpendicular to the magnetic force lines.



A and C indicators

- Indicator A: shim with hole, supplied in accordance with NF A09-570.
- Indicator C: conforms to ISO 9934-2 Type 2.



Test rings

- Test ring with 12 pre-drilled holes ASTM E1444.
- Test ring with 12 pre-drilled holes with magnetic characterization. ASTM-E-1444 and AS5282.



SAFRAN disc and shim

- *SAFRAN* disc n° 8.21.1.000 038.0 DMC 0070: circular for electric current control.
- *SAFRAN* shim n° 8.21.1.000 039.0 DMC 0070: parallelepipedal standard for control between polar masses or encircling solenoids.



INDICATORS

BURMAH strips



- Type G: old type 1, pouch of 5, general mechanics.
- Type A: old type 2, pouch of 5, aerospace sector.

MTU N°3 test block



- Reference block type 1 in accordance with EN ISO 9934-2.
- Supplied with a reference photograph with magnetic ink (product to specify).

Conical centrifuge tube



- Graduation: 0.05 ml up to 1 ml, 0.1 ml up to 2 ml, 0.2 ml up to 3 ml, 0.5 ml up to 5 ml, then every 1 ml up to 10 ml, and then finally every 5 ml.
- Stand available.
- Meets ASTM D91 requirements.

Pear shaped centrifuge tube



- Fluorescent bath model: graduation every 0.05 ml from 0.05 ml up to 1.0 ml.
- Non-fluorescent bath model: graduation every 0.1 ml from 0.1 ml up to 1.5 ml.
- Supplied with a certificate of conformity ASTM E709, without stand.

Quantitative Quality Indicators (QQI)



Flexible ephemeral indicators translated from ASTMe1444

- **Shim type CX-230 STANDARD**
  thickness 0.05 mm, notch 30% of thickness

- **Shim type CX4-230 MINIATURE**
  thickness 0.05 mm, notch 30% of thickness

- **Shim type 3C2-234 DEPTH**
  thickness 0.05 mm, progressive notches 20/30/40% of thickness

Analysse II
Straight probe/angled probe



Analysse II is an instrument for measuring values and analysing shape of tangential magnetic fields. It has been designed to check magnetisation conditions during magnetic particle inspections and the correct operation of benches or metaloscopes used in magnetic particle inspection.
Analysse II can be used to analyse the magnetic field generated, either by measuring its values peak mean true RMS or by displaying its curve. Mainly intended for the aeronautical sector, it displays the true value of peak values.

- Supplied with a recent ISO 10012 certificate
- Straight probe: 60 x 8 x 8 mm
- Angled probe: 46 x 8 x 17 mm
- Long probe: 211 x 8 x 8 mm
- Measurements accessible remotely via wired or wireless communication
- Recording of measurements for computer processing
- Multi-operator management

AVAILABLE UNITS	A/m, A/cm, kA/m, Oe, G, µT, mT
POWER SUPPLY	3 AA rechargeable batteries/accusables
WATERPROOF, HUMIDITY AND DUSTPROOF	IP54
STANDARD AUTONOMY	30 hours
SENSOR	Hall Effect probe
DISPLAY RESOLUTION	0.001 kA/m; 1 A/m; 0.01 A/cm; 0.01 Oe; 0.01 G; 1 µT; 0.001 mT
SAMPLING FREQUENCY	10 kHz
FREQUENCY RANGE	40 Hz to 410 Hz
CASING	Reinforced ABS plastic
REFRESH RATE	8 Hz
DIMENSIONS	140 mm x 71 mm x 34 mm (excluding probe)
WEIGHT	290 g with battery
HOUSING	Reinforced ABS plastic
HUMIDITY AND DUST PROOFING	IP 64
UNITS AVAILABLE	kA/m, A/m, A/cm, Oe, mT

Intensis
Straight probe/angled probe



Intensis is an instrument for measuring the magnetic tagential field. Intensis has been designed to check the correct operation of magnetic benches or yokes used in magnetic particle inspection.

- Modular display: user-selectable values to be displayed
- Automation: can be integrated into an automated measurement chain
- Measurement range: +/- 470 A/cm
- Display resolution: 0.01 A/cm; 0.001 kA/m; 1A/m; 0.01 Oe; 0.01G; 1 µT; 0.001 mT
- Available in:
  - Straight bent probe (tangential field + remanent field indication)
  - Straight probe (tangential field)
- Measurements available remotely by wired or wireless communication
- Recording of measurements for use on computer
- Multi-operator management

MEASURING DEVICES

Magnetis II

Magnetis II is an instrument for measuring the remanent magnetic field.
Magnetis II is used to check the absence of residual field in parts inspected by magnetic particle testing.

- Maximum resolution: 1 A/m; 0.001 kA/m; 0.01 A/cm; 0.01 Oe; 0.01G; 1µT; 0.001 mT
- Available units: A/m, kA/m, A/cm, Oe, G, µT, mT
- Supplied with carrying case and recent ISO 10012 metrology certificate
- Measurements accessible remotely by wired or wireless communication
- Recording of measurements for use on a computer
- Multi-operator management



Detection characteristics

- Physical quantity: remanent magnetic field
- Measurement range : +/- 47000 A/m
- Display resolution: 1 A/m; 0.001 kA/m; 0.01 A/cm; 0.01 Oe; 0.01G; 1µT; 0.001 mT

Mechanical and environmental characteristics

- Case dimensions: 140 x 71 x 34 mm (excluding probe)
- Probe dimensions: Ø 10 mm; h 31 mm
- Weight: 280 g including battery
- Protection rating: IP54

Residual field indicator

- Graduation: 0 to ±20 Gauss.
- Accuracy: ±2 Gauss + 3 % deviation, full scale.
- Weight: 75 g, ø 63 mm*34 mm, fluorescent dial.
- Supplied with a calibration certificate.



Y400 / Y300 induction lights

- Provides additional lighting levels of approximately 500 lux when the metalloscope is in AC mode.



EQUIPMENT

Permanent magnets



AP 56
- Permanent magnet with boron-iron-neodymium non-dischargeable poles.
- Poles are 150 mm in length and are connected by a metallic cable 300mm long.
- Supplied in a pouch.
- Lifting power >30 kg.
- Pole's diameter = 33 mm.
- Aluminium and resin body.

AP 65
- Permanent magnet with boron-iron-neodymium non-dischargeable poles.
- Poles' length = 150 mm, connected by a metallic cable 300 mm long.
- Lifting power >40 kg.
- Poles have a diameter of 40 mm.
- Aluminium and resin body.
- Supplied in a case.

Plaque vérification champ magnétique ISO9934-3



- Permet l'évaluation des capacités d'aimantation en A/m avec un mesureur de champ au centre des pôles du métalloscope à vérifier.
- Ce test est requis selon la norme EN ISO 9934-3 pour les appareils neufs ou en service, à la place ou en plus du test de soulèvement (avec la barre TB10 de 4,5kg disponible à la vente chez BABBCO).
- Fournie avec un certificat d'équivalence de la nuance d'acier pour l'usage prévu par la norme EN ISO 9934-3.
- Longueur : 50 cm - Largeur : 25 cm - Épaisseur 1 cm.

TB 10



- A bar weighs 4.5 kg.
- It is possible to combine several of them thanks to a bolt (not supplied) & the central hole to reach up to 22.5 kg if necessary (dead weight according to ASTM E1444 & ISO 9934).
- Each bar has a serial number and certificate.

Electromagnets transformer



- Complies with EN 60742.
- Splashproof, carrying handle, thermal circuit breaker, metal cover and circuit separation.
- Extensions available as options: 10, 20 and 30 meters.
- Weight: 16 kg - Dimensions: 31x33x40 cm.
- 2 versions available: 48 / 12V and 48 / 24V.

Electric transformer



- Carrying handle and small footprint.
- 230 / 42V - Weight: 6.5 kg - 300 VA.
- Dimensions (handle included): 20x26x9 cm.
- Supplied with suitable male and female sockets.
- The cable section allows the use of up to 60 m of 48V extension cable.

EQUIPMENT

Refilable sprayer PULJET 3



- Spray bottle for use with hydrocarbon solvent cleaners or non aqueous magnetic inks.
- FPM seal (resistant to chlorine, acids, alkaline solvents, mineral oils, light fuel oils and diesel, mineral oil based grease).
- Plastic reservoir with graduation and an adjustable PVC nozzle for directional spray.

Characteristics

- Net capacity: 1.5 L
- Total volume: 2 L
- Weight: 0.42 kg

Sprinkler gun



- It can be installed on magnetic test benches or on mobile watering systems.
- It can be the complement to the automatic irrigation system.
- The flow is adjustable with the handle and the shape of the adjustable jet with the nozzle.
- Very good resistance to the oil base product.
- Delivered with 2 meters of special hydrocarbon hose and 1 quick connector.

Characteristics

- Presentation: brass body nickel plated 12 mm through hole.
- Weight: 466 g single version and 565 g version with extension (aluminum or copper tube).
- Dimensions: 220 mm version with extension.
- Use with water or hydrocarbon support.

LIGHTINGS

LIGHTINGS 61

- UV-A lights 62
- Mixed lights 66
- White lights 67
- Measuring devices 70
- Equipment 72

*All product photos are not contractual

UV-A LIGHTS

AMBIENT LIGHTS

UFLEX LED UV-A ceiling light



BABBCO offers the UFLEX overhead lighting range from UWAVE: powerful and fully customisable UV-A LED solutions for your Non-Destructive Testing (NDT) operations. Combining dimensional flexibility with variable intensity, this range adapts precisely to your intended application, whether your working distances are short, intermediate, or long.

Designed to be user-friendly, lightweight, yet robust, these overhead lights feature low energy consumption. By choosing our solutions, you benefit from seamless integration and the expertise of our technical sales team, who will conduct a bespoke lighting and visual ergonomics study for you:

- Precise Lighting Calculations: We optimise the number of units and their spacing to guarantee perfect coverage and strict compliance with industry standards
- Ergonomic Optimisation: Every configuration is custom-designed to maximise operator visual comfort and facilitate defect detection.
- Turnkey Solutions: From inspection booths to wash stations, we adapt the IP (Ingress Protection) rating and light intensity to suit your specific environment

Our overhead lights are available for inspection, washrooms, or ambient lighting. We support your project with a personalised quotation based on your actual site configuration and operational requirements.

Key Benefits:

- High Performance: Customisable UV-A intensity.
- Durability: Robust design for demanding industrial environments.
- Expert Support: Full technical study included to ensure standard compliance.

EDGE 4W

SPECTRO-UV



- IP65 ceiling light.
- Passive cooling.
- 220/230VAC 50/60Hz, without switch (provide control deported).
- Suitable for wash stations and some inspection stations.
- 4 UV-A LEDs 365 nm.
- ISO 3059 certified.
- Pre-rigging for serial mounting.
- Dimensions: 28x36x23 cm.

EDGE 13

SPECTRO-UV



- The newest flood lamp series with 13 UV-A LED lights specifically designed for NDT overhead inspections.
- Multiple lamp units can be “ganged” together to provide an even wider coverage area.
- Low visible light emission - less than 1 foot-candles (11 lux).
- Integral UV-A pass filters.
- Illumination: UV-A of 4700 µW/cm² at 38 cm.
- Dimensions: 28x36x23 cm.
- Weight: 6.4 kg.
- The IP 65 lamps are dustproof and protected against water jets from all sides.
- Compliant with ISO 3059, ASTM E3022 and *ROLLS-ROYCE* RRES 90061 requirements.

UV-A LIGHTS

INSPECTION LIGHTS

uVision 365

- Compact and economical inspection lamps allow very high quality evaluations.
- Using a state-of-the-art heatsink concept, it cools mechanically without the need for a fan.
- 3 powerful LEDs.
- UV-A (365 nm), it also comes with a white LED to light up work areas.
- The compact design of the head provides access to areas inaccessible to large UV inspection lamps.
- Resistant to dust and splash water, one of the most robust lamps from *SPECTRO-UV*.
- Certified RRES-90061, ASTME 3022 and ISO 3059.
- Complies with AITM6-1001 ME1720084 (Memorendum).
- Available in a standard and deluxe range.



Specifications

- Dimensions: Ø 8,9 cm*19 cm.
- Weight: 0.73 kg
- Cords: each lamp comes with a 2.40 m cord.

uVision Z

- Robust, reliable and wireless inspection lamp.
- Passive cooling by heat sink.
- In addition to three powerful UV-A Leds (365 nm), it comes with a white LED for lighting work areas.
- IP 65 lamp, dust and splash resistant, one the most robust lamps from *SPECTRO-UV*.
- ISO 3059, ASTM E3022 and RRES-90061 certified.
- Conforms to AITM6-1001-11 ME1720084 (Memorendum).
- Battery level indicator light.
- Available in a standard and deluxe range.
- Built-in lithium-ion battery.
- Autonomy 8 hours (UV-A illumination).
- Charging time: 4 hours.
- Barycentre: balance the masses exactly at the switch therefore no discomfort or fatigue, and no risk of MSD to operators.



Specifications

- Light source: 3 UV-A Leds and 1 white LED (4300 lux max)
- Lamp head dimension: 9 cm.
- Height: 24.1 cm.
- Foot width: 9.5 cm.
- Weight: 1.2 kg.

UV-A LIGHTS

uVision R

- With a retractable cord for large inspection booths, and UV absorbing glasses.
- Using an advanced heat sink concept, it cools mechanically without the need for a fan.
- In addition to three powerful UV-A LEDs (365 nm), it comes with a white LED for lighting work areas.
- IP 65 lamp, resistant to dust and splashing water, one of the most robust lamps from *SPECTRO-UV*.
- ISO 3059, ASTM E3022 and RRES 90061 certified.
- Complies with AITM6-1001 ME1720084.
- Indicator light indicating the battery level.
- Available with a 15 meters cord.



CLARITY 365

- Conforms to ASTM E3022.
- IP68: water and dust tight.
- Lithium-ion battery: 9 hours of battery life (standard version).
- Safety if battery is discharged: automatic lighting cut for secure the inspection.
- Induction charging: the lamp is stored in the charger base and then it automatically loads.
- Load level indicator lights.
- 2 models: standard or high intensity.
- Black anodized aluminum body.
- Transparent UV-A lenses.
- Wood filter.
- Compact and lightweight: 17.5 cm and 360 g.
- Belt cover and carrying case included.
- USB and mains cables for the included charger foot.



OPTIMAX 365

- *Spectro-UV* powerful UV-A LED flashlight.
- Cordless.
- Powered by a rechargeable NiMH battery, charger included.
- 90 minutes of continuous inspection, two-colour charge indicator light.
- Nominal steady-state UV-A intensity of 7000 µW/cm² at a distance of 60 cm.
- Rubber lamp protector prevents damage to LED head.
- Optional: a diffuser filter.



EEX-1000 EAGLE EYE ONE

- LED UV-A headlamp
- Instant-on operation. Reaches full UV-A intensity immediately.
- Lamp is equipped with antioxidant blacklight filter glass to minimize the visible light and increase the UV light.
- Fan-less mechanical cooling keeps light source cool to maintain optimum UV-A intensity during extended use.
- Powered by one rechargeable lithium-ion battery. Provides up to 4 hours of continuous inspection between charges.



UV-A LIGHTS

PM-16B/F POWERMAX 365 DUAL UV-A AND VISIBLE LIGHT

The PowerMAX PM-16B ceiling light features a UV-A (365 nm) LED panel and white light for inspection or ambient lighting. The UV-A intensity announced by the manufacturer is obtained at maximum power.

The illuminance of the white light is fixed: minimum intensity zone at 1100 lux of 30*40 cm at 2 metres, 40*50 cm at 1 metre and 50*60 cm at 0.7 metre. Illuminance in the axis is 5000 lux at 70 cm, 3000 lux at 1 metre and 1300 lux at 2 metres.
The ceiling light can be suspended from cables or chains using additional accessories not supplied with the luminaire. The ceiling lamp has a tristable UV-A/Off/white switch, passive cooling and a 230 V AC power supply.

The PowerMAX PM-16B is available with 32 UV-A LEDs and 8 white LEDs on request. The illuminated surfaces are double those of the 16/8 LED version.



EK-3000 EAGLE EYE 2

- Eagle Eye 2, nomadic UVA source.
- Head lamp or handle lamp (aerosol grip supplied).
- LEDs for a UVA device ASTMe3022 / ISO3059 compliant.
- AdditionalWhite light , softcase, charging set (LiIon 2 sticks). Initial running time abour 75 minutes.
- Ventilated block for a stable output, wood's filters and antisplash filters.



UV-A splashproof low voltage 24 V LED hand lamp

- Waterproof two-tube UV-A lamp for wash stations.
- Provides an illuminance of 300µw/cm² at approximately 15 cm.
- 24-volt Ac/Dc power supply not included.
- 2 x 8W UV-A tubes.
- IP67 protection rating.



MIXED LIGHTS

A-BLUE

OPTIMAX 450

- The A-Blue actinic LED torch from *Spectroline*.
- Specifically for leak detection and fluorescent penetrant testing in re-works outside the dark cabin.
- Controlled inspection, even outside of the inspection cabin.
- Avoids the presence of UV-A in workshops, and allows for self-inspection and time saving when working outside specific observation areas (NDT fluorescent methods).
- Two-colour charge indicator light.
- A case, yellow glasses and a protective rubber bumper is supplied with it.
- According to CEN TR 16638.



MIXTES

OPTIMAX Multi-Lite

- The kit consists of three interchangeable LED lamp heads:
  - UV-A
  - Actinic blue light
  - White light
- The lamp has 90 minutes of continuous battery life, and a charge time of 5 hours.
- Batteries are in-built.
- The kit contains two chargers, one AC and one DC 12/24V with car charger, and two pairs of protective glasses (UVS30 and UVS40).
- This lamp was particularly designed for NDT professionals to provide a constant source of illumination in all inspection situations.
- It is extremely versatile.



WHITE LIGHTS

Rechargeable torches

REF.	DESCRIPTION	LUMENS	BATTERY DURATION (in hours)	LIGHT DISTANCE (in meters)	T° (in K)
P5R PRO	• Focus function (Advanced Focus System) • Natural white light with a high CRI to reduce eye strain. • IP68 • Dual power source: rechargeable via USB-C or using rechargeable or disposable batteries	750	18	280	4500-5500
					
P6R	• Focus function (Advanced Focus System) • IP68 • Rechargeable via USB-C • Operation	1200	65	320	6000-7500
					
P7R PRO	• Focus function (Advanced Focus System) • Natural white light with a high CRI to reduce eye strain. • IP68 • Rechargeable via USB-C • Mode selection ring for quick access to different lighting modes	2000	60	320	4500-5500
					

Headlamps

REF.	DESCRIPTION	LUMENS	BATTERY DURATION (in hours)	LIGHT DISTANCE (in meters)	T° (in K)
H5RWORK	• 1x Li-ion 3.7V AA battery • Weight 188 g • Charge level display • Supplied with magnetic charging system, helmet clip, interior silicone protection and lens protector	300	45	150	3700-4000
					

WHITE LIGHTS

DUAL WHITE UV LAMP DIMMABLE

REF.	DESCRIPTION	LUMENS	BATTERY LIFE (in hours)	UV-A (in nanometers)	T° (en K)
W7RWORK	Flexible work lamp with two light sources, white and UV-A (365 nm) Continuously adjustable color temperature Foldable lamp head (180°) and rotatable (270°) Flexible mount Li-ion battery USB-C adapter not included, available for purchase.	220-600	2-5	365-370	6000-7500



ZONE 0 EXPLOSIVE ATMOSPHERE EX7 LED LAMP

REF.	DESCRIPTION	LUMENS	BATTERY LIFE (in hours)	CLEARANCE (in meters)	T° (en K)
EX7	Magnetic switch for easy use with gloves and protective equipment. Continuous focus: first flashlight for Ex 0/20 zone with the patented Advanced Focus System. Suitable for the highest gas and dust groups (IIC/IIIC). Battery powered with 3x AA, alkaline.	200	45	120	6000-8000



USB-C Adapter 20W

This 20W USB-C adapter is designed to accompany the W7R Work dual UV white lamp.



WHITE LIGHTS

4 in 1 multifunctional white flashlight:

Option 1: LED flashlight with sliding focus, 280 lumens, two power levels.
- Number of LEDs: 1
- LED type: High Power LED
- Color: White
- Color temperature (K): 5500 to 7500
- Color Rendering Index (CRI): 70



Option 2: LED Working Light on 180° flexible arm with 11.5cm long lighting unit (COB-LED) for wide and diffused light. Power of 350 lumens.

Option 3: LED lamp on a focusable flexible arm (gooseneck), 32 cm long, 7 mm diameter. This extra flexible lamp illuminates even inaccessible corners. Power of 190 lumens.

Option 4: Super thin flexible LED lamp for inspection and maintenance, 33 cm long, 4.3 mm diameter. Power of 3 lumens.

MEASURING DEVICES

AccuMAX

- The combined radiometer/lux meter measures both ultraviolet and visible light in accordance with ISO 3059 "Viewing conditions", the basic standard used in all sections of NDT for magnetic and penetrant testing methods, fluorescent and day light processing and visual inspections. It's also in accordance with ASTM E2297 for the aerospace market (NADCAP for the radiometry part)
- The probe is equipped with a low impedance dual sensor, providing excellent linearity, and is digitally controlled by µ-controllers.
- Protected by a shockproof cover, the electronics offer an automatic zero and optimum optical characteristics, especially through the use of diffusers, providing an angular response closest to the answer, according to the cosine.
- The mechanical protection of all circuits, and the electrical/electronic quality make this device safe, accurate and durable.
- Supplied with a carry case, a standard USB cable and a periodic metrology certificate compliant with ASTM E2297, ISO 10012, ISO 3059 "Viewing conditions" and ISO3059 / ASTM E2297 certifications. To be kept.
- Sensors with reduced aperture according to ASTM E3022 for the transverse scan also required by AITM6-1001.
- Variations: Radiometer only/lux meter only/Luminance meter 1 million cd/m² / UV-A-Blue Radiometers.



AccuPRO

- AccuPRO Series meters feature an advanced, microprocessor-controlled readout unit calibrated to accurately measure and display both UV-A and visible light readings for non-destructive testing applications.
- Available in two versions: the AccuPRO (**XP-2000A**) readout unit features a single dual-wavelength sensor detector designed to measure both UV-A and visible light.
- The AccuPRO Plus (**XP-4000**) features a single 3-in-1 multipurpose sensor that measures ultraviolet A, visible and Actinic blue light.
- These compact, lightweight, units with a rechargeable bettery is ideal for use in the field, the factory or anywhere accurate light measurements are needed.
- Large, easy to read, LCD screen with 4-digit autoranging display.
- Both units provide accurate readouts for UV-A irradiance as well as visible illuminance.
- AccuPRO Plus unit also measures blue light.
- Simply to use, three-button interface.
- Overall accuracy greater than ±5% per NIST standards.
- Multi-wavelength sensor directly attached to meter by 3 ft (0.9 m) cord.
- Sensors with reduced aperture according to ASTM E3022 for the transverse scan required by AITM6-1001.
- AccuPRO (XP-2000A) complies with ASTM E2297 and ISO 3059.
- AccuPRO Plus (XP-4000) complies with CEN/TR 16638, ASTM E2297 and ISO 3059.



MEASURING DEVICES

Radiometer/luxmeter/colorimeter FLASH

Flash is the all-in-one solution combining Radiometer, Luxmeter and Thermocolorimeter, the successor to the well-known Pollux.This combined device is designed to meet your needs simply and effectively. With Flash, you can measure UV-A, visible white light and its proximal colour temperature with a single probe.



Flash can be used to monitor lighting conditions, particularly in inspection booths. It is equipped with a data processing algorithm that enables it to react quickly. The Flash has been developed to ISO 3059 and ASTM E2297/ E3022 standards.

- Measurements can be accessed remotely by wired or wireless communication.
- Measurements can be recorded for use on a computer.
- Multi-operator management.

Luxmeter



- Use to measure white light illuminance.
- Unit size: 83 x 52 x 20.5 mm.
- Dimensions: 125.5x72x27 mm.
- Weight: 140 g approximately (without battery).
- O to 50 000 lux in 3 ranges.
- Accessories: battery, user manual.
- Supplied with a calibration certificate.

Luminance meter



- Luminancemeter supplied with a case & a certificate.
- Measuring range from 0.01 to 19990 cd/m^2 on 4 significant digits
- Built-in protection pad on the sighting tube to protect the screens during contact.
- Additional large surface protection for a perfect positioning.
- Cable length: 1.5m
- Ideal for radiography/scopy viewing screens.

LS330 Luxmeter/thermocolorimeter/thermometer/hygrometer



- Comprehensive measurements, including illuminance, CCT, CRI, UV index, and flicker frequency.
- Wide illuminance range up to 1,000,000 Lux with a resolution of 0.1 Lux for precise readings.
- Built-in spectral sensor for accurate measurements across diverse light sources.
- Real-time spectral curve display for analyzing light source properties and blue light hazard assessments.
- Measurement of environmental parameters such as temperature (-20°C to 80°C) and humidity (0%RH to 90%RH).
- Powered by 2 AA batteries, ensuring easy and convenient operation.
- The device is delivered without batteries.
- Supplied with illuminance certificate in Lux, colorimetry certificate optional (contact us)

EQUIPMENT

Dino-Lite

- Is a digital microscope that can be connected to a computer, allowing you to record images, videos, take measurements, etc.
- It has LED lighting, emitting white light, or a UV-A light >375 nm in wavelength.
- UV-A radiation is not centered at 365 nm, making it unsuitable for final inspection.
- Only use as an indicator.
- The UV-A light is not compliant with EN ISO 3059.
- Magnification level : > 10-70x and 200x.



Two different models available

- UV-A 375 nm + white - 4 white LEDs and 4 UV-A LEDs - Resolution: 1.3 Mpx.
- UV-A 375 nm + white - 4 white LEDs and 4 UV-A LEDs - Resolution: 5 Mpx.

UVEX safety glasses



- Complies with COFREND good practices guide for lighting in Penetrant testing and Magnetic particles testing.

Temples and frames

- Material: permaflex (thermo plastic rubber).
- Features: 5 different side arm positions.
- Small size available (1.2 cm shorter than the standard frame).

Lens

- Material: polycarbonate, duo-spherical, mono-screen lens.
- Thickness: 1.85 mm.
- Filter: 2-1.2 in accordance with EN 170, 100% UV filter.
- Treatment: UVEX supra-vision HC-AF K-N, integrated anti-glare coating.
- Optical class: 1 (without distortion for continuous wear).
- Impact resistance: F, (45 m/s) in accordance to EN 166.

Anti-UV & contrast coated safety glasses

- Complies with good practices guide for lighting in Penetrant testing and Magnetic particles testing.
- Optical quality lens surfaces: prevents micro-distortions in the field of vision that are found in molded polycarbonate anti-UV glasses.







EQUIPMENT

SPECTRO-UV

→ FA100 flexible arm + B6 bench mount



→ FA100 flexible arm + W6 wall mount



→ WM100 rigid wall arm



→ VF100A inspection bench

- Allows you to check the intensity of spotlights and lamps.
- Adjustable distance from the spotlight.
- Height adjustable unit positioning.
- Dimensions: 26x66 cm.



→ Aerosol handle for CLARITY



ULTRASONIC TESTING

ULTRASONIC TESTING 74

- Radioprotection 75
- Ultrasonic testing 76
- Scan Matte 78

*All product photos are not contractual

Dolphy Nano

- It's a flow meter designed to be easy to use, light, space-saving and to react quickly to a change of mood while displaying a stable measurement.
- Its ease of use makes it a reliable device that can be put in any hand.
- It offers a resolution of 0.01µSv/h.
- Pocket radiation meter in µSv/h H* unit (10) incorporating a Geiger Muller energy compensated detector.
- Display range between 0.01 and 9900 µSv/h.
- The alarm threshold setting is accessible.
- The user can view the cumulative dose in real time since ignition.
- Each time the ambient change is detected upwards (higher flow), a beep is emitted.
- A single button turns it on or off.
- The screen is permanently backlit for good reading, even in total darkness.



ULTRASONIC TESTING

SG0 coupling gel

- Transparent straw yellow, synthetic based liquid, water dilutable.
- It was developed to facilitate ultrasonic inspections on parts that require a good level of accuracy in testing.
- The distinctive thickness of the coupling gel ensures it adheres to the surface under inspection, and a fine and constant film under ultrasound probe, regardless of its position.
- Temperature for use ranges from 0°C to 50°C; beyond which use remains possible, but the viscosity of the liquid may vary.



SG1 coupling gel

- New generation product, made gelled by an effect of undisturbable molecular bonds (non-thixotropic, it is semi-pasty / semi-fluid therefore very easy to spread and very adherent on the vertical surface).
- Usable from 0° to 50° C without significant modification, then it becomes more and more liquid up to 80°C max.
- Partly aqueous, non-drying gel, easily accommodates poorly degreased surfaces and particularly easy to wipe.
- Pink color, fluorescent under UV-A.

PMUC



G641 high temperature coupling gel

- Silicone gel with a high boiling point due to additives.
- It can be used for ultrasonic inspection on large surfaces, up to 250°C.
- The product does not run or dry, and provides excellent sound transmission even at high temperatures.
- Maximum temperature rating of 200°C - up to 250°C in one-offs.



UHT ultra high temperature coupling gel

- Silicone gel with a high boiling point due to additives.
- It can be used for ultrasonic inspection on large surfaces.
- The temperature for use ranges from 200°C to 550°C.
- Does not run or dry, and provides excellent sound transmission even at high temperatures.



FYp coupling powder

- This hydrating powder is a safe alternative to paper glue or grease used as a coupling agent.
- Easy to remove with water, cloth or solvent.
- Sulfur and halogen certificate <250ppm.



ULTRASONIC TESTING

ELMASONIC cleaning tanks

- 37 kHz ultrasonic frequency (adjustment band -2.5/+5.5 kHz).
- 5 ultrasonic modes for a demand-oriented distribution of the sound field in the ultrasonic bath:
  - Eco mode: gentle cleaning with quieter operation by running the sweep mode at a slightly lower intensity.
  - Sweep mode: Uniform cleaning by means of an even distribution of the sound field in the ultrasonic bath.
  - Pulse mode: Removal of even stubborn dirt by means of a pulsating sound field distribution.
  - Dynamic mode: Combination of sweep and pulse ultrasonic modes for increased cleaning performance.
  - Degas mode: rapid degassing of the cleaning fluid and for special laboratory applications.
- 4 memory locations for cleaning programs, available via quick selection.
- Temperature limit adjustable from 40 to 60 °C (can be changed to °F).
- Dry-running protection (except Elmasonic Select 500 / 900).
- Automatic safety shutdown after 8 hours.







REFERENCES	TANK INTERNAL DIMENSION	LITERS
ELMASONIC SELECT 30	220x120x95 mm	2.7
ELMASONIC SELECT 40	215x115x145 mm	3.9
ELMASONIC SELECT 60	275x125x145 mm	5.9
ELMASONIC SELECT 80	475x110x145 mm	9.3
ELMASONIC SELECT 100	280x220x145 mm	9.5
ELMASONIC SELECT 120	300x215x195 mm	12.9
ELMASONIC SELECT 150	485x280x95 mm	14.6
ELMASONIC SELECT 180	300x370x195 mm	17.8
ELMASONIC SELECT 300	475x270x195 mm	27.5
ELMASONIC SELECT 500	500x330x290 mm	49.7
ELMASONIC SELECT 900	600x500x285 mm	89

3L digital ultrasonic tank

- Ultrasonic power 120 W / 180 W peak at 40 kHz.
- Internal tank dimension (L x W x H) 240 x 135 x 100 mm.
- With drain valve and heating 100W.
- Adjustable temperature from 0 to 80°C.
- Timer digital display 0 to 30 min, automatic switch off.
- Display Current T° + Target T° + Remaining time.



SCAN MATTE

AESUB WHITE 3D SCAN MATTE

- Free of titanium dioxide (TiO2) nanoparticles
- Fine, homogeneous coating
- Developed and approved by 3D scanning experts
- Easy to remove
- Coating thickness: 7 µm

- AESUB white is a permanent mattifying spray for 3D scanning, developed by experts. It is the result of constant technological development. The spray applies a smooth, even, mattifying layer to the surface of the object. It has been designed to optimize contrast values in optical digitizing applications.
- AESUB white sets a new benchmark for surface homogeneity and layer thickness.
- Unlike traditional sprays, AESUB white is free from titanium dioxide, which the European Chemicals Agency (ECHA) has classified as carcinogenic by inhalation.



AESUB ORANGE 3D SCAN MATTE

- The AESUB Orange matting spray creates a white, uniform and matte surface that significantly improves the quality of the scan.

- This product is sublimated after a long time (about 10 hours), the deposited layer disappears without leaving any trace. It is therefore no longer necessary to clean the parts after the scan.
- This saves time and costs, - Thickness of the deposited layer is approximately 100µm,
- Designed without pigments to avoid damaging your parts or equipment,
- Allows you to obtain excellent quality 3D scans for professional use



AESUB BLUE 3D SCAN MATTE

- The AESUB Blue self-evaporating matte spray prevents reflections on your metal parts or parts with a shiny appearance. The spray creates a clean, matte surface that significantly improves the quality of the scan. Designed by 3D scanning experts, the spray disappears by itself after the scan and leaves no trace. It is therefore no longer necessary to clean the parts with a cleaning spray.
- Time and cost saving: There is no need to clean your parts after the scan. The product evaporates by itself without leaving any traces,
- Designed without pigments to avoid damaging your parts or equipment,
- Easily applied in a uniform, even, matte coat,
- Provides excellent quality 3D scans for professional use.



REPLICATION / VISUAL TESTING

REPLICATION / VISUAL TESTING 79

- Replication 80
- Visual inspection 87

*All product photos are not contractual

REPLICATION

MICROSET 101 FLUID

A free-flowing compound that minimises the risk of air entrapment, suitable for replicating horizontal or sloping surfaces, large surfaces, cavities, and threaded holes.

- Resolution: 0.1 µm
- Shelf life: 24 months
- Hardness: 28-30 Shore A
- Shrinkage: Less than 0.1%
- Color: Black or Gray
- Useable temperature range: -10°C to +180°C
- Specific Gravity: 1.1

Microset Grade	Working Life (-25°C)	Cure Time (-25°C)	Key Features	Packaging and colors		
				50ml	265ml	495ml
101 RF	30 seconds	5 minutes	General-purpose, ideal for low temperatures or rapid results.	● ●	● ●	●
101 FF	4 minutes	30 minutes	General-purpose, suited for normal or high temperatures.	● ●	● ●	●
101 XF	15 minutes	60 minutes	Specialist-purpose, with a longer working time, suited for large surfaces.	● ●	● ●	●
101 FS	50 minutes	210 minutes	Specialist-purpose, high working life fluid material for replicating large horizontal or sloping surfaces.	● ●	● ●	
101 FFS	10 minutes	40 minutes	General-purpose, with a longer working time, suited for normal or high temperatures.	●	●	
101 XFS	25 minutes	90 minutes	Specialist-purpose, with an extra long working time, suited for large surfaces.	●	●	
101 XFXS	35 minutes	120 minutes	Specialized use, with a high working time to reproduce large horizontal or inclined surfaces, suitable for normal or high temperatures		●	

MICROSET 202 FLUID

A high-resolution fluid compound ideal for metallography.
Harder and less flexible than 101, it is more prone to tearing when removed from complex surfaces.

- Resolution: 0.1 µm
- Shelf Life: 24 months
- Cured hardness: 45 Shore A
- Shrinkage: Less than 0.1%
- Color : Black or Blue
- Useable temperature range: -10°C to +180°C
- Specific Gravity: 1.1

Microset Grade	Working Life (-25°C)	Cure Time (-25°C)	Key Features	Packaging and colors		
				50ml	265ml	495ml
202	2 minutes	7 minutes	Fast-curing, low-viscosity fluid, ideal for microstructure analysis and surface finish measurement.	● ●		

REPLICATION

MICROSET 101 THIXOTROPIC

A thixotropic compound that can be applied to vertical and overhead surfaces without dripping or flowing away.

- Resolution: 0.1 µm
- Shelf Life: 15 months
- Cured hardness: 28-30 Shore A
- Shrinkage: Less than 0.1%
- Colour: Black or Grey
- Useable temperature range: -10°C to +180°C
- Specific Gravity: 1.1

Microset Grade	Working Life (-25°C)	Cure Time (-25°C)	Key Features	Packaging and colors		
				50ml	265ml	495ml
101 RT	30 seconds	5 minutes	Fast curing, ideal for low temperatures or quick results.	● ●	● ●	●
101 TH	3 minutes	20 minutes	General-purpose, suitable for normal or high temperatures.	● ●	● ●	●
101 THS	7 minutes	30 minutes	Specialist-purpose, with a longer working time than 101 TH.	● ●	● ●	●
101 XFT	15 minutes	60 minutes	Specialist-purpose, high working life for replicating large vertical or overhead surfaces.	●	●	
101 XFT SL	25 minutes	90 minutes	Specialist-purpose, extra high working life for replicating large vertical or overhead surfaces.	●	●	

MICROSET 121 FORMING PUTTY

Two-part synthetic rubber putty, to be mixed in equal parts by hand, ideal for macroscopic molding of surface shapes. Available in fast-curing (121F) and slow-curing (121S) versions.

- Resolution: 10 µm
- Shelf Life: 24 months
- Cured hardness: 77 Shore A
- Shrinkage: Less than 0.1%
- Colour: Part A: Yellow | Part B: Blue | Mixed: Green
- Useable temperature range: -10°C to +150°C
- Specific Gravity: 1.15
- Packaging: Kit consisting of two tubs in two sizes
- 500G Kit (250G Tub PartA + 250G Tub PartB)
- 2KG Kit (1KG Tub PartA + 1KG Tub PartB)

Microset Grade	Working Life (-25°C)	Cure Time (-25°C)	Key Features
121 F	3 minutes	10 minutes	Fast-curing, hand-mixed putty for moulding and measuring surface profiles, ideal for rapid results in low or room temperatures.
121 S	20 minutes	60 minutes	Slow-curing, hand-mixed putty for moulding and measuring surface profiles, ideal for high temperatures or large areas.

ANALYSIS ACCESSORIES

Adhesive backings (tapes and papers) specially designed for use with MICROSET replicas.
These mounts are designed to:

- Facilitate accurate labeling of replicas
- Allow easy and safe handling
- Improve detailed inspection
- Keep thin replicas flat for microscopic analysis

→ PACK OF 50 SUPPORT SLIDES

Support slides designed to adhere to MICROSET replicas, facilitating precise labeling, easy handling, and detailed inspection. Perfect for ensuring accuracy and stability during microscopic examinations and quality control.



→ PACK OF 10 A4 BACKING PAPER

Large format support paper (A4) designed to adhere to MICROSET replicas, facilitating their handling, labeling, and microscopic analysis. Used in research, quality control, and industrial inspection.



→ PACK OF 100 BACKING PAPER 70mm x 60mm

Support paper designed to adhere to MICROSET replicas, facilitating labeling, handling, and inspection. Allows thin replicas to be mounted flat for microscopic analysis. Perfect for sample analysis and documentation in industrial and scientific environments.



PACKAGING ACCESSORIES - 50ML

MANUAL DISPENSING GUN 50ML

The MICROSET 50ML MANUAL DISPENSER GUN is a reusable, manual tool designed to dispense 50ml MICROSET cartridges. It delivers the compound through a static mixing nozzle, ensuring a homogeneous mix and precise application. This system is ideal for medium to large-scale replication and molding applications. MICROSET compounds are available in fluid and thixotropic formulations, meeting a variety of application needs.



CARRY CASE

Durable plastic case designed for the secure storage and transport of the MICROSET 50ml system. Ideal for technicians and professionals needing a reliable transport solution for their MICROSET 50ml system.



PACK OF 50 NOZZLE PACK 50ML

Pack of 50 static mixing nozzles designed for efficient and airless mixing of MICROSET compounds.
Perfect for large-scale molding, replication, and bonding applications requiring consistent, high-quality mixing.



PACK OF 5 LUER NEEDLES (45 DEG)

Pack of 5 needle tips angled at 45 degrees, designed for precise application of MICROSET compounds. Ideal for precision work in molding, replication, and fine application of materials requiring controlled dosing.



REPLICATION

→ PACK OF 5 LUER NEEDLES (STRAIGHT)

Pack of 5 straight needle tips, designed for precise application of MICROSET compounds with direct control. Ideal for molding, replication, and detailed application of materials requiring high precision.



→ PACK OF 10 SPREADERS

Pack of 10 fan-tip distribution nozzles, designed for homogeneous and precise dispensing of MICROSET compounds. Perfect for controlled application in replication, molding, and laboratory processes requiring accurate material distribution.



→ PACK OF 10 NOZZLE PACK FLEXI-TIP

Flexible tubular extension for 50ml nozzles, designed to enhance precision and accessibility when applying MICROSET compounds. Ideal for precise application in hard-to-reach areas, ensuring uniform and controlled distribution of MICROSET materials.



PACKAGING ACCESSORIES

- Manual and pneumatic dispensing gun in two sizes: 265/495 ml
- Nozzles of different sizes ranging from 6 to 10 mm in diameter and in various shapes

MANUAL DISPENSING GUN

The MICROSET MANUAL DISPENSING GUN is a reusable, manual tool designed to dispense MICROSET cartridges of 265/495ml. It delivers the compound through a static mixing nozzle, ensuring a homogeneous mix and precise application.
This system is ideal for medium to large-scale replication and molding applications. MICROSET compounds are available in fluid and thixotropic formulations, meeting a variety of application needs.



PNEUMATIC DISPENSING GUN

The MICROSET PNEUMATIC DISPENSING GUN is a compressed air dosing tool designed to be used with 265ml/495ml MICROSET cartridges. It allows for precise and effortless dispensing, ideal for medium to large-scale replication and molding applications. The system ensures accurate mixing and application thanks to a static mixing nozzle. This pneumatic system is ideal for medium to large-scale replication and molding tasks. MICROSET compounds are available in fluid and thixotropic formulations to meet various application needs.



PACK OF 10 8MM NOZZLE

Pack of 10 mixing nozzles with an internal diameter of 8mm, ensuring homogeneous, air-free mixing of MICROSET compounds. Recommended for even distribution of MICROSET materials.



REPLICATION

PACK OF 10 NOZZLE 10MM

Pack of 10 mixing nozzles with an internal diameter of 10mm, designed to ensure an air-free mix of MICROSET compounds. Ideal for precise and controlled material dispensing, ensuring an even application.



PACK OF 10 NOZZLE 6MM

Pack of 10 mixing nozzles (6mm internal diameter), allowing a homogeneous, air-free mixing of MICROSET compounds. Recommended for controlled dispensing tasks requiring high precision.



PACK OF 10 8MM NOZZLE 32MIX

Pack of 10 static mixing nozzles (8mm internal diameter) with 32 mixing elements for flawless application. Ideal for projects requiring uniform material distribution without air bubbles.



PACK OF 10 8MM NOZZLE

Pack of 10 mixing nozzles with an 8mm square internal diameter, designed for precise, air-free mixing of MICROSET compounds. Perfect for controlled dispensing of MICROSET materials in detailed projects.



BABBCOVISION 6mm Video Endoscope - Dual Lighting (UVA and White)

High-definition industrial video endoscope with a 6 mm diameter probe, designed for visual inspection with dual specific lighting.

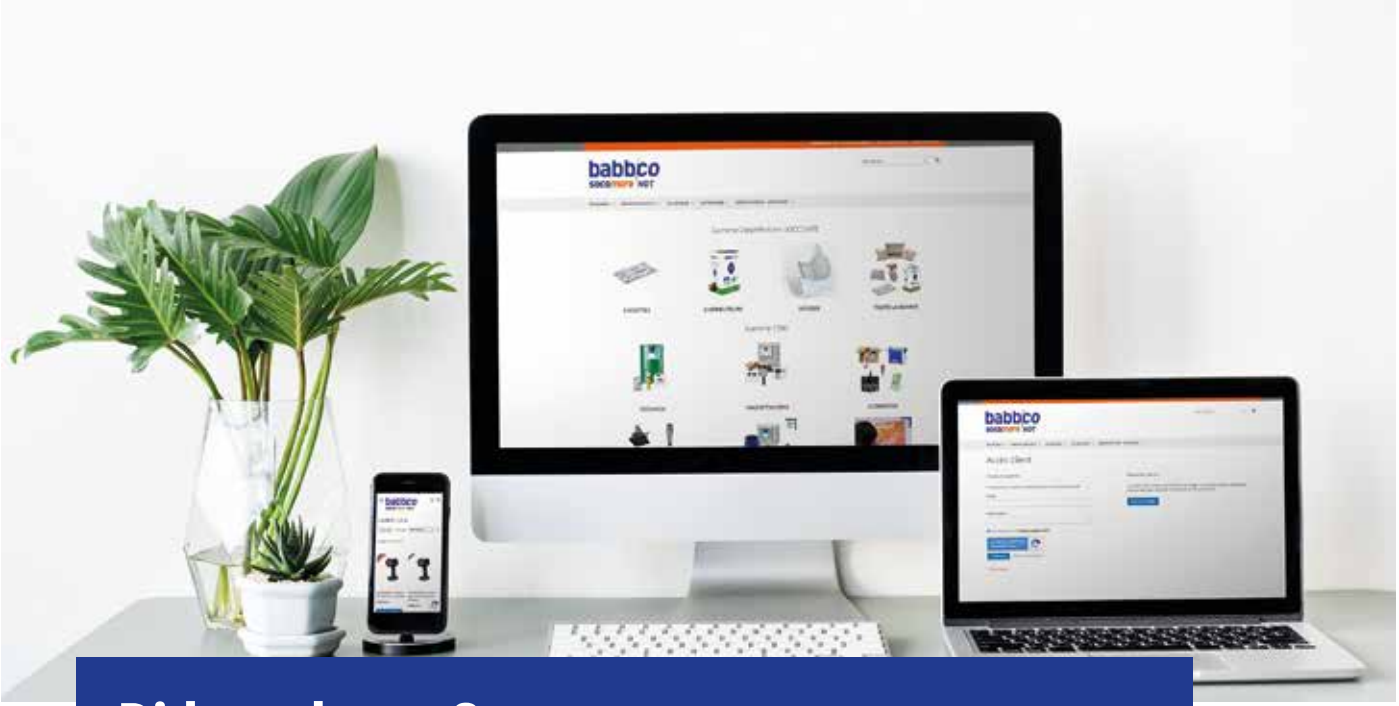
Optical system and lighting
- Dual lighting: the device combines ultraviolet (UV-A 365 nm) radiation through a silica fiber and white light through an optical fiber.
- High-definition sensor: It uses a 1/9» CMOS sensor offering a resolution of 1280 x 720 px for photos (.jpg) and videos (.mp4).
- Field of view: the sapphire glass optics provide a viewing angle of 120° with a focus range from 8 to 150 mm.



Probe features
- Articulation: the camera head can be articulated in all directions and is controlled via a joystick.
- Flexible Design: the flexible hose is made of braided tungsten. Its standard length is 150 cm (extendable up to 500 cm) and it is not detachable.
- Waterproofing: the camera head has an IP67 protection rating.

Control unit and ergonomics
- Screen: The interface features a 5-inch touchscreen with a resolution of 1024 x 768 px.
- Storage and connectivity: The device includes a 32GB card (expandable to 64GB). It is equipped with HDMI, USB Type-C ports, and a headphone jack.
- Power: It operates with two 3350 mAh batteries.
- Image processing: Features include manual brightness adjustment, white balance (automatic/manual), as well as image rotation or mirror effect.

Environment and transport
- Operating temperatures: the probe can withstand temperatures from -20° to 60°C, while the main unit operates between -10°C and 40°C.
- Weight: the unit alone weighs 0.96 kg, and the complete set with its carrying case weighs 6 kg.



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