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CATALOGUE
ACCESSORIES – CONSUMABLES
MT – PT – UT







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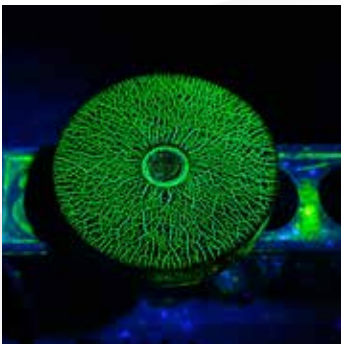
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ACCESSORIES

MAGNETIC PARTICLE INSPECTION

REFERENCE BLOCK TYPE I / MTU TEST BLOCK

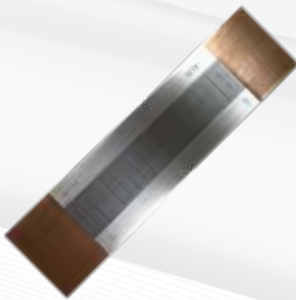


The Reference Block Type I / MTU Test Block is a prompt test of magnetic ink effectiveness. The cracks on both surfaces are obtained by quenching and range from 0.1 to 1µm in size. The Reference Block Type I / MTU Test Block can be used with fluorescent or visible magnetic particles.

In compliance with: **EN ISO 9934-2; ASTM E1444**

PART NUMBER	REF.
04099884	88.4

REFERENCE BLOCK TYPE II



The Reference Block Type 2 is used to evaluate the sensitivity of magnetic ink. It consists of 1 steel bar and two permanent magnets on either end. The scale is calibrated such that the +4 mark represents a magnetic field with a strength of +100 A/m and the -4 mark represents -100 A/m. Indication lengths give a measure of magnetic ink performance. Longer indications mean good performance (that of a fresh bath), and they become shorter as the solution performance deteriorates with use.

In compliance with: **EN ISO 9934-2**

PART NUMBER	REF.
04099906	90.6

MAGNETIC STRIPE CARD – TYPE 2000



The Type 2000 Magnetic Stripe Card is a tool used for instantly evaluation of the performance of the wet fluorescent magnetic particle materials. The stripe on each card contains a standardized pattern of magnetic lines across the stripe's length. Particles are attracted to these lines forming visual indications.

In compliance with: **ASTM E709-01**

PART NUMBER	REF.
04099891	89.1





SEDIMENTATION GLASS TUBE



The pear-shaped centrifuge sedimentation glass tube is used to monitor the bath magnetic particle concentration and the level of contamination of the bath. The support has to be purchased separately.

In compliance with: **ASME / ASTM Standards**

PART NUMBER	REF.
04099893: Fluorescent Magnetic Particle Baths	94.8
04099894: Magnetic Particle Baths at Daylight	94.4
04099895: Support for 100 CC graduated glass tube	94.2/01

PIE GAUGE OCTAGONAL PLATE



A pie gauge is a device used to measure magnetic field direction. It is an octagonal flat plate composed of eight low- carbon steel sheets, similar to pieces of pie. The octagonal flat plate is copper coated from the back side to hide the joint lines. The device has to be placed on the tested piece during the magnetic powder application and magnetizing. With an adequate magnetic field, the indications perpendicular to the magnetic flux lines on the various sectors of the octagonal plate will appear.

In compliance with: **ASME Sec. V – Art. 25-SA 275; ASTM E1444**

PART NUMBER	REF.
04099860	86

BERTHOLD TEST



The Berthold Test is used to determine the magnetizing efficiency. The central piece is cut into quadrants to provide indications at 0 and 90 degrees. It is composed of a circular central part in ferromagnetic material in the shape of a cone, with the cuts perpendicular to each other. This cylinder-shaped part is inserted on the metallic base, so that it can be rotated around its axis in order to modify the distance between the surface and the plate.

PART NUMBER	REF.
04099862	88.3



TOOL STEEL RING



The Ketos 01 and AS 5282 type ring samples are magnetic test method accessories with pre-drilled holes at increasing depth starting from the edge, designed to replicate surface discontinuities. The tool is used to verify the penetrating capacity of the magnetic field based on the type and intensity of the current, as well as on the type of the magnetic particles used. Supplied with the certificate of conformity.

In compliance with: ASTM 1444/E1444M; ASME V; McDonnell Douglas P.S. 21201; DPS 4.704; SAE-AS5282

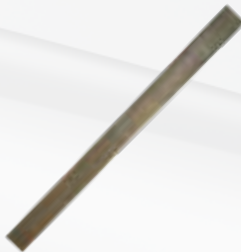
PART NUMBER

04099890: AS 5282 Type
04099899: Ketos 01 Type

RIF.

88.7
88.8

BAR FOR MT EQUIPMENT TESTING



This very complex sample, mm 400 x 30 x 10 H in size, containing a series of holes of various diameters positioned at different depths and directions that simulate subsurface discontinuities, allows an extremely effective verification of the MT system performance. The sample can be placed between the heads or inside a low fill factor coil (coil diameter at least ten times larger than the sample).

PART NUMBER

04099881

REF.

88.1

MAGNETIC FLUX INDICATOR / FLEXIBLE LAMINATED STRIPS



Flexible Laminated Strips are used to indicate the presence and the intensity of the magnetic field during magnetic particle inspection. The strips are to be positioned on the tested surface. The indications produced on the strips give the inspector a general idea of the field strength in that specific area. Supplied in a pack of five strips.

In compliance with: ASTM E1444

PART NUMBER

04089694: Set of 5 Strips Type I Brass – General Use
04089696: Set of 5 Strips Type II Silver – Aerospace Use

REF.

96.12
96.13





SHIMS TYPE / QQI



The Quantitative Quality Indicators (QQIs) are one of the most used method of assuring proper field direction and adequate field strength. A Gaussmeter is frequently used together with QQIs to set up the inspection procedure for a specific component. Wet method is the only one applicable, and like other verification devices, they can only be used with continuous magnetization. The QQI is a thin strip of either 0.002" or 0.004"-inch-thick AISI 1005 steel. A photoengraving process is used to inscribe a specific pattern, such as concentric circles or a plus sign. QQIs are normally 3/4 inch square, but smaller shims are also available. QQIs must be positioned in close contact with the tested piece.

Key Features

- ▶ They can accommodate virtually any configuration with suitable selection
- ▶ They can be reused with careful application and removal practices

In compliance with: **ASTM E1444; ASME V ART.7**



Type 3C2-234
Type 3C4-234



Type CX-230
Type CX-430



Type CX4-230

PART NUMBER

- 04099901: Shim QQI Type CX-230 – thickness 0,002"
- 04099902: Shim QQI Type CX-430 – thickness 0,004"
- 04099903: Shim QQI Type CX4-230 (CM-230) – thickness: 0,002"
- 04099904: Shim QQI Type 3C2-234 – thickness: 0,002"
- 04099905: Shim QQI Type 3C4-234 – thickness: 0,004"

REF.

- 90.1M
- 90.2M
- 90.3M
- 90.4M
- 90.5M

TFT RT1 MAGNETIC FIELD STRENGTH METER



Digital Magnetic Field Strength Meter TFT RT1 is suitable for continuous, pulsating, alternate, tangential magnetic fields and residual magnetism with polarity indication – two devices in one. The probes are specifically designed for magnetic field measurements during magnetic particle inspection.

PART NUMBER

- 05089740: TFT RT1 Meter+ Battery Charger 230 V 50 Hz-12 V
- 05089736: Tangential Probe for measuring tangential field
- 05089737: Axial Probe for measuring the residual magnetism
- 05089738: "Hall" Effect Micro-Probe for measuring the field strength and residual magnetism inside recessed small areas
- 05089739: Battery Charger 230 V 50 Hz-12 V (Spare part)

REF.

- 96.2M
- 96.3M/N
- 96.4M/N
- 96.6M/N
- 96.7M/N



GAUSSMETER



The Gaussmeter is a portable, calibrated residual field and polarity indicator, with leather sheath, used to measure residual magnetism remaining in the tested workpieces after magnetization or to verify demagnetization. Available in various scale ranges: 5-0-5; 10-0-10; 20-0-20 and 50-0-50.

PART NUMBER	REF.
04089690: Scale range +/- 5 Gauss	96.11
04089691: Scale range +/- 10 Gauss	96.9
04089692: Scale range +/- 20 Gauss	96.10
04089693: Scale range +/- 50 Gauss	96.10.2

APOLLO 3.0 UV & WH METER



Radiometer/photometer measuring UV and visible light via a single wireless sensor. Available as a single kit (1 Reader and 1 Sensor – M513) or double kit (1 Reader and 2 Sensors – M514). Each sensors measure both UV and white light. Apollo 3.0 is approved by NIST (National Institute of Standards and Technology) and is in compliance with ISO 3059:2012.

As only the sensor needs to be calibrated, the double kit is convenient to guarantee ongoing operations.

Key Features

- ▶ The sensor unit of Apollo 3.0 has an ingress protection of 67 (IP67).
- ▶ Batteries of the sensor unit are accessible from the outside, therefore, the unit does not need to be re-calibrated when changing batteries.
- ▶ The Apollo 3.0 operates using 3 pcs of Alkaline batteries (3 x AAA 1.5 volt). The new batteries do not require Dangerous Goods Management (DGS) and the meter is therefore easier to ship by air.
- ▶ In extreme temperatures, Apollo 3.0 has zero temperature deviation, showing the exact same reading when performing UV measurements at 0°C or 40°C.
- ▶ The fatigue is close to non-existing. The readings drop by 0.1% after 30 minutes irradiation with 50 000 $\mu\text{W}/\text{cm}^2$.

PART NUMBER	REF.
LA-M513	M513





STANDARD DIGITAL AMMETER



The standards require periodical checks of magnetic particle inspection equipment has to be periodically checked to maintain its original performance (calibration verification). One of such checks has to be performed on the ammeters installed on the MT system. For this purpose, CGM offers a set including standard ammeters for alternating and rectified current and the related shunts.

PART NUMBER

05089520: Ammeter + shunt 3000 A 120 mV + shunt 30 A 120 mV
04089540: Carrying case

REF.

95.2M
95.4

RADIOMETER DM 365 XA



The radiometer is an easy-to-use tool that measures the light intensity of UV lamps (Wood lamps). The measure is expressed directly in $\mu\text{W}/\text{cm}^2$, as required by standards.

PART NUMBER

05089700

REF.

97M

DIGITAL LUXMETER TYPE ILM 1332A



The digital Luxmeter is an instrument used for measuring light intensity (white light), with spectral sensitivity close to the standard Cie photopic curve. The light meter is equipped with a sensor connected by flexible cable, which allows to easily take readings where necessary, with 3 1/2 digit LCD display for quick and accurate reading of measurements, and it includes a support stand for further convenience.

PART NUMBER

05089710

REF.

97.1M



LIQUID PENETRANT INSPECTION

LIQUID PENETRANT COMPARATOR BLOCK



Aluminum Sensitivity Test Block is used to verify the performance of the penetrant liquid at nonstandard temperatures. The block is made from 2024 aluminum and is 3" x 2" x 3/8" thick. A 1/8" wide groove separates the block's two sides in order to facilitate side-by-side comparison.

In compliance with: **ASTM E165; ASME Sec.V**

PART NUMBER	REF.
04099804	98.2

PAIR OF TEST PANEL NICKEL 10-20-30-50 MICRON



A set of two panels made by plating a brass panel first with brittle nickel, then with chrome. The panels are approx. 1.5" (36 mm) in width and 4" (101 mm) in length, are machined from the same stock and have corresponding cracks. They are particularly effective in assessing the penetrant inspection system's ability to detect surface discontinuities. It results to be very handy for simultaneous comparison of the penetrants from two batches. Sold in sets of two, with photographs.

In compliance with: **EN ISO 3452-3 TYPE 1; ASTM E1417; AMS 2647D; JIS Z 2343-3**

PART NUMBER	REF.
04099810: Pair of NiCr – 10 μ Test Panel	98.6/1
04099811: Pair of NiCr – 20 μ Test Panel	98.6/2
04099812: Pair of NiCr – 30 μ Test Panel	98.6/3
04099813: Pair of NiCr – 50 μ Test Panel	98.6/4





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TAM PANEL 135273 CRACK COMPARATOR



The crack comparator is used to measure the actual size of indications identified during the liquid penetrant inspection process. The tool measures indications in increments 0.010" to 0.180".

In compliance with: PRATT & WHITNEY Requirements TAM 135273

PART NUMBER	REF.
04099809	98.5

TAM PANEL 146040 – STAINLESS STEEL



The stainless steel TAM Panel consists of a 0.100" (2.5 mm) stainless steel plate. Half of the test surface is coated with a 0.003" thick hard chrome alloy (0,0762 mm). This hard coated half contains five evenly spaced cracks, forming star-like shapes. The non-coated side is grit blasted with roughness equal to Ra = 2.0 for testing the penetrants' washability. The tool is used for the process verification of the inspection with both dye and fluorescent penetrants, but it can also be used for the comparison between penetrants of different brands with the same or different sensitivity. Polished or Grit models available.

In compliance with: ASTM E 1417 par. 7.8.3.1; PRATT & WHITNEY Requirements TAM 146040

PART NUMBER	REF.
HOF-GRIT: Grit surface with certificate, P&W TAM 146040	No.1-fg
HOF-GRIT-PHOTO5: Grit surface with certificate and one full size photo, P&W TAM 146040	No.2-fg
HOF-GRIT-PHOTO: Grit surface with certificate, one full size photo & single photo for each stars, P&W TAM 146040	No.3-fg
HOF-POL: Polished surface with certificate, P&W TAM 146040	No.1-po
HOF-POL-PHOTO5: Polished surface with certificate and one full size photo, P&W TAM 146040	No.2-po
HOF-POL-PHOTO: Polished surface with certificate, one full size photo & single photo for each stars, P&W TAM 146040	No.3-po



TAM PANEL – STAINLESS STEEL



It is the same model of TAM Panel produced by Hoffmann, but made by CGM. It consists of a stainless steel plate of 100x150x2 mm. On one side a chrome coating bears 5 cracking points obtained with an indenter at increasing loads. Alongside, the steel is grit sandblasted to allow the simultaneous verification of sensitivity and washability. This TAM Panel comes without certification as per the standards and without reference photos.

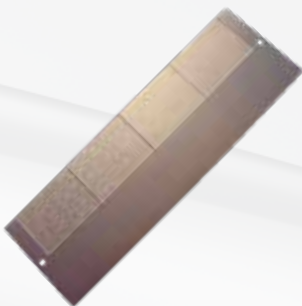
PART NUMBER

04099808

REF.

98.4

REFERENCE BLOCK TYPE II



The Type II reference block is designed to verify the continuity over time of the liquid penetrant effectiveness. The block consists of 2 parts: one side contains fine star-shaped discontinuities for penetrant sensitivity verification, while the other part consists of 4 separate rough grades to check the penetrant's washability.

In compliance with: EN ISO 3452-3

PART NUMBER

REFERENCEBLOCKT2

REF.

T2

PORTABLE OPTICAL REFRACTOMETER – MODEL 101 ATC



Portable refractometer for normal production checks in various industrial sectors. Equipped with single scale and automatic temperature compensation (ATC); suitable for lubricants and emulsified oils. Measuring range: 0.0÷32% Brix; resolution: 0.2% Brix; accuracy: ±0.2% Brix. All models are supplied ready to use in a padded case.

PART NUMBER

04099817

REF.

98.17





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SWING AWAY TAM 190466 CRACK COMPARATOR



The Tam 190466 Swing Comparator presents highly fluorescent, sharp-angled "feeler gauge" style traces for linear and round indications. This comparator is made of transparent plastic and is used in the inspection booth to evaluate the size of defects ranging from 0.2 to 3.0 mm. The Swing Comparator features markings on the tapered ends for narrow radius comparisons.

PART NUMBER
04099816

REF.
98.16



CONSUMABLES

SPRAYS

LIQUID PENETRANT INSPECTION

VELNET/SOLNET



Velnet/Solnet is a solvent to be used for preliminary and final cleaning during liquid penetrant inspection and/or to remove excess penetrant from the surface before applying the developer. Its excellent characteristics allow it to be used on a wide range of surfaces to remove oils, greases and various contaminants. The product was developed considering all application aspects for use in non-destructive testing. It allows fast and complete drying at the pre-cleaning stage and is specifically designed for optimal removal of solvent removable penetrants without the risk of over-washing.

C Method (Class 2)

Related products: all CGM consumables (preliminary/final cleaning)

In compliance with: EN ISO 3452-2 (Class 2); ASME Sect. V – Art. 6; ASTM E165; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING
400 ml Spray
NEW 500 ml Spray

PART NUMBER
03011010

REF.
R2.605

RED WW



RED WW is a water-washable visible dye penetrant with excellent resolution in detecting indications of surface discontinuities. It generates high red color contrast with good penetration characteristics. The penetrant is characterized by excellent washability, which minimizes background marks and false indications; this results in savings in time and water consumption. The penetrant is designed to guarantee Level 1 performance, in compliance with applicable regulations.

Level 1 – A Method

Related products: Velnet/Solnet – Detergent H₂O (final cleaning); Rotrivel U (developer)

In compliance with: ASME Sect. V – Art. 6; ASTM E165; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING
400 ml Spray
NEW 500 ml Spray

PART NUMBER
03011110

REF.
R2.715





ROTVEL AVIO B



Rotvel Avio B is a water-washable / solvent removable visible dye penetrant with good/excellent resolution in detecting indications of surface discontinuities. It generates high red color contrast, combined with good penetration characteristics. The penetrant is characterized by excellent washability, which minimizes background marks and false indications; this results in savings in time and water consumption. The penetrant is designed to guarantee Level 2 performance, in compliance with applicable regulations.

Level 2 – A-C Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U** (developer)

In compliance with: **ASME Sect. V – Art. 6; ASTM E165; EN ISO 3452-2/5/6; AMS 2644; PMUC** (certificate of compliance upon request)

	PACKAGING	PART NUMBER	REF.
	400 ml Spray	03021810	R2.725
	500 ml Spray		

MAGISGLOW 30



Magisglow 30 is a high sensitivity water-washable fluorescent penetrant. It can be used in a wide range of applications, guaranteeing excellent penetration characteristics and excellent reliability in detecting surface open defects. This liquid penetrant is also ideal for checking welding defects such as holes/porosities, as its high penetration capability reduces inspection time and allows the detection of small defects.

Level 4 – A Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Pasta** (developer)

In compliance with: **ASME BPVC – Sect. V – Art. 6; ASTM E165/E165M-18; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC** (certificate of compliance upon request)

	PACKAGING	PART NUMBER	REF.
	400 ml Spray	03042310	F3.68/30S
	500 ml Spray		



ROTRIVEL U



Rotrivel U is a fast-evaporating, non-aqueous, non-halogenated solvent-based developer that creates an opaque white background for high-contrast inspection. It is used to quickly check for "bleeding", obtaining bright and clear indications. The product's high quality allows for a uniform and thin application which leads to reduced consumption of the penetrant. The developer is easily removable using the Velnet/Solnet product.

Form: D – for Type 1 penetrants; E – for Type 2 and Type 3 penetrants

Related products: Velnet/Solnet (cleaning); all CGM PT consumables

In compliance with: ASME Sect. V – Art. 6; ASTM E165/E165M; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
400 ml Spray	03011210	R2.825
NEW 500 ml Spray		

VELEMULSIOR H₂O



Velemulsior H₂O is a hydrophilic emulsifier used to emulsify the excess of post emulsifiable penetrants before final washing. This product is formulated to minimize the penetrant's background on rough surfaces without increasing the risk of removing it from within the discontinuities.

Method D

Related products: Magisglow 22-27-46-54 (post-emulsifiable); Rotrivel U (developer)

In compliance with: ASME Sect. V – Art. 6; ASTM E165/E165M-18; EN ISO 3452-2; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
400 ml Spray	03071610	R2.905
NEW 500 ml Spray		





SPRAYS

MAGNETIC PARTICLE INSPECTION

VELNET/SOLNET



Velnet/Solnet is a solvent to be used for preliminary cleaning during magnetic particles testing, and for removing the Vecoplast white contrast paint. Its excellent characteristics allow it to be used on a wide range of surfaces to remove oils grease and various contaminants. In addition, removing the contrast paint with this product is quick and easy.

Related products: all CGM consumables

In compliance with: EN ISO 3452-2 (Class 2); ASME Sect. V – Art. 6; ASTM E165; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING

400 ml Spray

NEW

500 ml Spray

PART NUMBER

03011010

REF.

R2.60S

READY-TO-USE SUSPENSION LK 35



LK 35 is a ready-to-use hydrocarbons-based black magnetic particle powder suspension for visible wet method magnetic particle testing. The magnetic particles' small size allows the use of this product on a wide range of surfaces, while ensuring excellent sensitivity. If applied together with the Vecoplast contrast paint, LK 35 guarantees an excellent color contrast even on dark surfaces, highlighting even the smallest discontinuities. LK 35 is a product with low sulfur and halogen content, in compliance with applicable standards.

Average particles size: <1 µm

Related products: Velnet/Solnet (preliminary cleaning); Vecoplast (contrast paint)

In compliance with: ASME Sect. V – Art. 6; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3041; AMS 3042; AMS 3043; AMS 2641; PMUC (certificate of compliance upon request)

PACKAGING

400 ml Spray

NEW

500 ml Spray

PART NUMBER

03087010

REF.

F3.68/30S



READY-TO-USE SUSPENSION LK 31-73



LK 31-73 is a ready-to-use oil-based fluorescent magnetic particle powder suspension for wet method magnetic particle testing. The fluorescent pigment used allows for high contrast under UV light. The size of the particles is such as to allow their adhesion to any type of surface. LK 31-73 a low-sulfur and low-halogen product, in compliance with applicable standards.

Average particles size: 3 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: **ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3044; AMS 3045; AMS 2641; PMUC (certificate of compliance upon request)**

	PACKAGING	PART NUMBER	REF.
	400 ml Spray	03087310	LK31735
NEW	500 ml Spray		

VECOPLAST



Vecoplast is a ready-to-use fast drying contrast paint, which generates a thin white film with high opacity. Particularly suitable for improving particle visibility during inspection with visible wet and dry method magnetic particles. The contrast paint is easily removable using the Velnet/Solnet product.

Flash Point: -20°C

Related products: **Velnet/Solnet** (preliminary cleaning); **dry and wet visible magnetic particles**

In compliance with: **EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E1444; ASTM E709; PMUC (certificate of compliance upon request)**

	PACKAGING	PART NUMBER	REF.
	400 ml Spray	03098110	V42S
NEW	500 ml Spray		





LIQUID PENETRANT INSPECTION PRODUCTS

DYE PENETRANTS

RED WW



RED WW is a water-washable visible dye penetrant with excellent resolution in detecting indications of surface discontinuities. It generates high red color contrast with good penetration characteristics. The penetrant is characterized by excellent washability, which minimizes background marks and false indications; this results in savings in time and water consumption. The penetrant is designed to guarantee Level 1 performance, in compliance with applicable regulations.

Level 1 – A Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U** (developer)

In compliance with: **ASME Sect. V – Art. 6; ASTM E165; EN ISO 3452-2; AMS 2644; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02011203	R2.71
200 L drums		
1000 L tanks		

ROTVEL AVIO B



Rotvel Avio B is a water-washable / solvent removable visible dye penetrant with good/excellent resolution in detecting indications of surface discontinuities. It generates high red color contrast, combined with good penetration characteristics. The penetrant is characterized by excellent washability, which minimizes background marks and false indications; this results in savings in time and water consumption. The penetrant is designed to guarantee Level 2 performance, in compliance with applicable regulations.

Level 2 – A-C Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U** (developer)

In compliance with: **ASME Sect. V – Art. 6; ASTM E165; EN ISO 3452-2/5/6; AMS 2644; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02021810	R2.72
200 L drums		
1000 L tanks		



WATER WASHABLE FLUORESCENT PENETRANTS

MAGISGLOW 1



Magisglow 1 is a water washable fluorescent penetrant featuring excellent washability and has the lowest sensitivity level available in CGM's range of fluorescent penetrants.

It can be used in a wide variety of applications with good penetration characteristics and excellent reliability in identifying open surface defects with defect dimensions detectable using a 0.5 level penetrant.

Level 0,5 – A Method

Related products: *Velnet/Solnet – Detergent H₂O* (final cleaning); *Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste* (developer)

In compliance with: *ASME BPVC – Sect. V – Art. 6; ASTM E165/E165M-18; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)*

PACKAGING	PART NUMBER	REF.
10 L cans	02041899	F3.68/1
200 L drums		
1000 L tanks		

MAGISGLOW 3



Magisglow 3 is a water-washable fluorescent penetrant characterized by excellent washability. It can be used in a wide range of applications with excellent penetration characteristics and excellent reliability in identifying open defects on the surface with defect dimensions detectable using a level 1 penetrant.

Level 1 – A Method

Related products: *Velnet/Solnet – Detergent H₂O* (final cleaning); *Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste* (developer)

In compliance with: *ASME BPVC – Sect. V – Art. 6; ASTM E165/E165M-18; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)*

PACKAGING	PART NUMBER	REF.
10 L cans	02041900	F3.68/3
200 L drums		
1000 L tanks		





MAGISGLOW 9



Magisglow 9 is a water-washable fluorescent penetrant with excellent washability. It corresponds to the intermediate sensitivity level and is widely used in various applications and industrial sectors. It is characterized by excellent penetration characteristics and excellent reliability in identifying open defects on the surfaces with defect dimensions detectable using a level 2 penetrant.

Level 2 – A Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste** (developer)

In compliance with: ASME BPVC – Sect. V – Art. 6; ASTM E165/E165M-18; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02042100	F3.68/9
200 L drums		
1000 L tanks		

MAGISGLOW 17



Magisglow 17 is a water-washable fluorescent penetrant with excellent washability. It can be used in a wide range of applications with excellent penetration characteristics and excellent reliability in identifying open defects on the surface with defect dimensions detectable using a level 3 penetrant.

Level 3 – A Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste** (developer)

In compliance with: ASME BPVC – Sect. V – Art. 6; ASTM E165/E165M-18; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02042200	F3.68/17
200 L drums		
1000 L tanks		



MAGISGLOW 30



Magisglow 30 is a high sensitivity water-washable fluorescent penetrant. It can be used in a wide range of applications, guaranteeing excellent penetration characteristics and excellent reliability in detecting surface open defects. This liquid penetrant is also ideal for checking welding defects such as holes/porosities, as its high penetration capability reduces inspection time and allows the detection of small defects.

Level 4 – A Method

Related products: Velnet/Solnet – Detergent H₂O (final cleaning);
Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste (developer)

In compliance with: ASME BPVC – Sect. V – Art. 6; ASTM E165/
E165M-18; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644;
PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02042300	F3.68/30
200 L drums		
1000 L tanks		

POST EMULSIFIABLE FLUORESCENT PENETRANTS

MAGISGLOW 22



Magisglow 22 is a post-emulsifiable fluorescent penetrant with good penetration characteristics and with excellent resolution when detecting open surface discontinuity indications with dimensions detectable using a level 1 penetrant. This penetrant can be removed with a hydrophilic / lipophilic emulsifier, or solvent.

Level 1 – B, C, D Method

Related products: Velnet/Solnet – Detergent H₂O (final cleaning);
Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste (developer)

In compliance with: ASME Sect. V Art. 6; ASTM E165; EN ISO 3452-
2; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02032500	F3.68/22
200 L drums		
1000 L tanks		





MAGISGLOW 27



Magisglow 27 is a post-emulsifiable fluorescent penetrant with good penetration characteristics and with excellent resolution when detecting open surface discontinuity indications with dimensions detectable using a level 2 penetrant. This penetrant can be removed with a hydrophilic / lipophilic emulsifier, or solvent.

Level 2 – B, C, D Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste** (developer)

In compliance with: **ASME Sect. V Art. 6; ASTM E165; EN ISO 3452-2; AMS 2644; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02032600	F3.64/27
200 L drums		
1000 L tanks		

MAGISGLOW 46



Magisglow 46 is a post-emulsifiable fluorescent penetrant with excellent penetration characteristics and with excellent resolution when detecting open surface discontinuity indications with dimensions detectable using a level 3 penetrant. This penetrant can be removed with a hydrophilic / lipophilic emulsifier, or solvent.

Level 3 – B, C, D Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste** (developer)

In compliance with: **ASME Sect. V Art. 6; ASTM E165; EN ISO 3452-2; AMS 2644; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02032700	F3.64/46
200 L drums		
1000 L tanks		



MAGISGLOW 54



Magisglow 54 is a post-emulsifiable fluorescent penetrant with excellent penetration characteristics and with excellent resolution when detecting open surface discontinuity indications with dimensions detectable using a level 4 penetrant. This penetrant can be removed with a hydrophilic /lipophilic emulsifier, or solvent.

Level 4 – B, C, D Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U – Velcontrast Dry Powder – Rotrivel H₂O Paste** (developer)

In compliance with: **ASME Sect. V Art. 6; ASTM E165; EN ISO 3452-2; AMS 2644; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02032800	F3.64/54
200 L drums		
1000 L tanks		

WATER-BASED PENETRANTS

ECO WATER RED



ECO Water Red is a water-washable, color-contrast, UV-fluorescent penetrant with excellent resolution when detecting indications of surface discontinuities. This penetrant belongs to the CGM's ECO line as it is a water-based product: it therefore does not contain petroleum derivatives or hydrocarbon mixtures. It thus has a low environmental impact compared to classic petroleum-based liquid penetrants. Additionally, you can use it as a fluorescent liquid under UV light to amplify indications.

Level 1 – A Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U** (developer)

In compliance with: **ASME Sect. V Art. 6; ASTM E165; ASTM E1417; EN ISO 3452-2; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02011102	R2.73
200 L drums		
1000 L tanks		





ECO WATER FLUOR 1



ECO Water Fluor 1 is a water-based fluorescent penetrant that can be eliminated with water, with very low environmental impact as it is easily degradable, being free of persistent and bioaccumulative substances. It is part of CGM's ECO line as it does not contain petroleum derivatives or hydrocarbon mixtures. It can be used instead of any traditional water-washable fluorescent penetrant, of the same sensitivity level.

Level 0,5 – A Method

Related products: *Velnet/Solnet – Detergent H₂O* (final cleaning); *Rotrivel U* (developer)

In compliance with: *ASME BPVC – Sect. V – Art. 6; ASTM E165/E165M-18; EN ISO 3452-2; PMUC* (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02042379	F3.69/79
200 L drums		
1000 L tanks		

ECO WATER FLUOR 3



ECO Water Fluor 3 is a water-based fluorescent penetrant that can be washed with water, with very low environmental impact as it is easily degradable, being free of persistent and bioaccumulative substances. It is part of our ECO line as it does not contain petroleum derivatives or hydrocarbon mixtures. It can be used in place of any comparable conventional water-washable fluorescent penetrant.

Level 1 – A Method

Related products: *Velnet/Solnet – Detergent H₂O* (final cleaning); *Rotrivel U* (developer)

In compliance with: *ASME BPVC – Sect. V – Art. 6; ASTM E165/E165M-18; EN ISO 3452-2; PMUC* (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02042380	F3.69/80
200 L drums		
1000 L tanks		



ECO WATER FLUOR 9



ECO Water Fluor 9 is a water-based fluorescent penetrant that can be washed with water, with very low environmental impact as it is easily degradable, being free of persistent and bioaccumulative substances. It is part of our ECO line as it does not contain petroleum derivatives or hydrocarbon mixtures. It can be used in place of any comparable conventional water-washable fluorescent penetrant.

Level 2 – A Method

Related products: **Velnet/Solnet – Detergent H₂O** (final cleaning); **Rotrivel U** (developer)

In compliance with: **ASME BPVC – Sect. V – Art. 6; ASTM E165/E165M-18; EN ISO 3452-2; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02042381	F3.69/100
200 L drums		
1000 L tanks		

EMULSIFIERS

VELEMULSIOR H₂O



Velemulsior H₂O is a hydrophilic emulsifier used to emulsify the excess of post emulsifiable penetrants before final washing. This product is formulated to minimize the penetrant's background on rough surfaces without increasing the risk of removing it from within the discontinuities.

D Method

Related products: **Magisglow 22-27-46-54** (post-emulsifiable); **Rotrivel U** (developer)

In compliance with: **ASME Sect. V – Art. 6; ASTM E165/E165M-18; EN ISO 3452-2; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02071600	R2.90





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CATALOGUE – Consumables

VELEMULSIOR H₂O HIGH CONCENTRATION



Velemulsior H₂O High Concentration is a concentrated hydrophilic emulsifier to be diluted in water, used for the emulsification/removal of post-emulsifiable penetrants. This product is formulated to minimize penetrant background on rough surfaces, as well as to reduce penetrant leakage from hollow parts. It is supplied as a concentrate to be diluted in water with a concentration of 10% to 30%.

D Method

Related products: **Magisglow 22-27-46-54** (post-emulsifiable); **Rotrivel U** (developer)

In compliance with: **ASME Sect. V – Art. 6; ASTM E165/E165M-18; EN ISO 3452-2; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02071500	R2.92

REMOVERS / DEGREASING

VELNET/SOLNET



Velnet/Solnet is a solvent to be used for preliminary and final cleaning during liquid penetrant inspection and/or to remove excess penetrant from the surface before applying the developer. Its excellent characteristics allow it to be used on a wide range of surfaces to remove oils, greases and various contaminants. The product was developed considering all application aspects for use in non-destructive testing. It allows fast and complete drying at the pre-cleaning stage and is specifically designed for optimal removal of solvent removable penetrants without the risk of over-washing.

C Method (Class 2)

Related products: **all CGM consumables** (preliminary/final cleaning)

In compliance with: **EN ISO 3452-2 (Class 2); ASME Sect. V – Art. 6; ASTM E165; AMS 2644; PMUC** (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02011000	R2.60
200 L drums		
1000 L tanks		



DETERGENT H₂O



Detergent H₂O is a water-based degreaser used for preliminary and final cleaning in liquid penetrant and magnetic particle testing. It is supplied as a concentrate to be diluted in water with a concentration of 10% to 30%. It is composed by degreasing properties and is ideal for use on surfaces that cannot be in contact with solvents.

Related products: all CGM consumables

PACKAGING	PART NUMBER	REF.
10 L cans	02071710	R2.94

DEVELOPERS

ROTRIVEL U



Rotrivel U is a fast-evaporating, non-aqueous, non-halogenated solvent-based developer that creates an opaque white background for high-contrast inspection. It is used to quickly check for “bleeding”, obtaining bright and clear indications. The product’s high quality allows for a uniform and thin application which leads to reduced consumption of the penetrant. The developer is easily removable using the Velnet/Solnet product.

Form: D – for Type 1 penetrants; E – for Type 2 and Type 3 penetrants

Related products: Velnet/Solnet (preliminary/final cleaning); all CGM PT consumables

In compliance with: ASME Sect. V – Art. 6; ASTM E165/E165M; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02011200	R2.82





VELCONTRAST DRY POWDER



Velcontrast dry powder is a developer for fluorescent penetrant liquids. The particle size is about 5 µm, thus ensuring excellent surface coverage without risking excessive dust accumulation. In addition, it is easily removed from the surface after inspection.

Form: A

Related products: all CGM fluorescent penetrants

In compliance with: ASME Sect. V – Art. 6; ASTM E165/E165M; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
1 kg buckets	01056901	F3.76CGM

ROTRIVEL H₂O PASTE



Rotrivel H₂O Paste is a water-based paste developer that generates a milky white background, specific for high temperature applications, as it has no danger tags and as it is composed of inert inorganic particles suspended in water and glycols. It is therefore ideal for situations where it is not possible to use solvents. It must be diluted in water with a concentration of 30%.

Form: C

Related products: all oil-based penetrants; Rotvel Avio Stick

In compliance with: ASME Sect. V – Art. 6; ASTM E165/E165M; ASTM E1417/E1417M; EN ISO 3452-2; AMS 2644; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
5 kg buckets	01056800	R2.84



PRODUCTS FOR HIGH TEMPERATURE APPLICATIONS

ROTVEL AVIO STICK



The Rotvel Avio Stick is a color contrast penetrant for high temperature controls with excellent resolution in detecting surface discontinuity indications. It generates an excellent red color contrast with good penetration characteristics. The penetrant is in the solid state; once in contact with the hot surface, it liquefies and penetrates into the possible discontinuities. For removal it is suggested to use a cloth soaked in Velemulsior H2O. Due to the remarkable penetrant fluidity, the formation of the indications is practically instantaneous after the application of the developer.

D Method

Related products: **Rotrivel H₂O paste** (developer); **stick holder**

PACKAGING	PART NUMBER	REF.
Bags with 1 or more sticks	04099930	102.16

DETERGENTS FOR ULTRASONIC TANKS

DETERGENT TYPE CLEAN 19 AI



CLEAN 19 AI Detergent is a non-foaming, non-flocculating cleaner that leaves no deposits on the nozzles. To be used by spraying. Ideal for the removal of oils, greases, machining dusts, fingerprints. Can also be used in single-stage machines without rinsing. Suitable for iron, steel, pure aluminium, copper and its alloys. If the cleaning process requires an ultrasonic immersion step, it must be added to a small quantity of CLEAN 84 HD.

PACKAGING	PART NUMBER	REF.
25 l cans	02098131	D19





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DETERGENT TYPE CLEAN 84 HD



CLEAN 84 HD Type Detergent is a neutral amber-coloured liquid cleaner for ultrasonic cleaning baths. Suitable for polished articles of brass and zinc alloys, copper and its alloys, precious metals and light alloys. It can be used in multiple sectors. Particularly useful in cases where, due to complicated parts or small cavities, any detergent residues may compromise the original product. The product is over 90% biodegradable.

PACKAGING
25 l cans

PART NUMBER
02098140

REF.
D84

DETERGENT TYPE 149



Detergent type 149 is a colourless, slightly acidic degreasing cleaner for spray, immersion or ultrasonic applications. Suitable for all metals, in particular where objects made of different metals or alloys are to be degreased. Suitable for removing mineral oil residues. Low environmental impact.

PACKAGING
25 l cans

PART NUMBER
02011005

REF.
D149



COMPARATIVE CHART OF PENETRANT LIQUID CHARACTERISTICS

	TYPE / METHOD	BASE	COLOUR	SENSITIVITY LEVEL	USAGE TEMPERATURE	APPLICATION TIME*	FLASH POINT	PRELIMINARY CLEANING	DEVELOPER	FINAL WASHING
RED WW	Type II / Method A	Oil distillates	Red	1	From 4°C to 52°C	From 5 to 10 min.	> 100°C	Velnet/Solnet	Rotrivel U	Water – Velnet/Solnet – Detergent H ₂ O
ROTVEL AVIO B	Type II / Method A-C	Oil distillates	Red	2	From 4°C to 52°C	From 5 to 10 min.	> 100°C	Velnet/Solnet	Rotrivel U	Water – Velnet/Solnet – Detergent H ₂ O
MAGISGLOW 1	Type I / Method A	Oil distillates	Fluorescent yellow/green	0,5	From 4°C to 52°C	From 10 to 20 min.	> 100°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Water – Velnet/Solnet – Detergent H ₂ O
MAGISGLOW 3	Type I / Method A	Oil distillates	Fluorescent yellow/green	1	From 4°C to 52°C	From 10 to 20 min.	> 100°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Water – Velnet/Solnet – Detergent H ₂ O
MAGISGLOW 9	Type I / Method A	Oil distillates	Fluorescent yellow/green	2	From 4°C to 52°C	From 10 to 20 min.	> 100°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Water – Velnet/Solnet – Detergent H ₂ O
MAGISGLOW 17	Type I / Method A	Oil distillates	Fluorescent yellow/green	3	From 4°C to 52°C	From 10 to 20 min.	> 100°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Water – Velnet/Solnet – Detergent H ₂ O
MAGISGLOW 30	Type I / Method A	Oil distillates	Fluorescent yellow/green	4	From 4°C to 52°C	From 10 to 20 min.	> 100°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Water – Velnet/Solnet – Detergent H ₂ O
MAGISGLOW 22	Type I, Method B, C, D	Oil distillates	Fluorescent yellow/green	1	From 4°C to 52°C	From 10 to 20 min.	> 93°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Velnet/Solnet – Detergent H ₂ O
MAGISGLOW 27	Type I, Method B, C, D	Oil distillates	Fluorescent yellow/green	2	From 4°C to 52°C	From 10 to 20 min.	> 93°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Velnet/Solnet – Detergent H ₂ O
MAGISGLOW 46	Type I, Method B, C, D	Oil distillates	Fluorescent yellow/green	3	From 4°C to 52°C	From 10 to 20 min.	> 93°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Velnet/Solnet – Detergent H ₂ O



COMPARATIVE CHART OF PENETRANT LIQUID CHARACTERISTICS

	TYPE / METHOD	BASE	COLOUR	SENSITIVITY LEVEL	USAGE TEMPERATURE	APPLICATION TIME*	FLASH POINT	PRELIMINARY CLEANING	DEVELOPER	FINAL WASHING
MAGISGLOW 54	Type I, Method B, C, D	Oil distillates	Fluorescent yellow/green	4	From 4°C to 52°C	From 10 to 20 min.	> 93°C	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder – Rotrivel H ₂ O Paste	Velnet/Solnet – Detergent H ₂ O
ECO WATER RED	Type III, Method A	Water	Red	1	From 4°C to 52°C	From 5 to 10 min.	Not flammable	Velnet/Solnet	Rotrivel U	Water – Velnet/Solnet – Detergent H ₂ O
ECO WATER FLUOR 1	Type I – Method A	Water	Fluorescent yellow/green	0,5	From 4°C to 52°C	From 10 to 20 min.	Not flammable	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder	Water – Velnet/Solnet – Detergent H ₂ O
ECO WATER FLUOR 3	Type I – Method A	Water	Fluorescent yellow/green	1	From 4°C to 52°C	From 10 to 20 min.	Not flammable	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder	Water – Velnet/Solnet – Detergent H ₂ O
ECO WATER FLUOR 9	Type I – Method A	Water	Fluorescent yellow/green	2	From 4°C to 52°C	From 10 to 20 min.	Not flammable	Velnet/Solnet	Rotrivel U – Velcontrast Dry Powder	Water – Velnet/Solnet – Detergent H ₂ O
ROTVEL AVIO STICK	Type II – Method D	Oil distillates	Red	2	From 50°C to 150°C	From 30 sec. to 3 min.**	> 180°C (bulk)	Velnet/Solnet	Rotrivel H ₂ O Paste	Velnet/Solnet

Typical values.

* The times indicated refer to working temperatures between 10°C and 52°C, for temperatures between 4°C and 10°C the times indicated must be doubled.

** For temperatures between 50°C and 80°C, the application time will be approximately 2-3 minutes. For temperatures between 80°C and 100°C, the application time will be approximately 1-2 minutes. For temperatures between 100°C and 150°C, the application time will be approximately 30 sec.-1 min.



MAGNETIC PARTICLE INSPECTION PRODUCTS

MAGNETIC POWDERS FOR DRY METHOD

MAGNETIC POWDER P4.10



The grey dye magnetic powder P4.10 is used for dry magnetic particle inspection in white light. It is a suitable powder for dark surfaces, as it can create an excellent color contrast, and is equipped with a high sensitivity, due to its high magnetic permeability.

Average particle size: 90 µm

Related products: [Velnet/Solnet](#) (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3040; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
5 kg jars	01011004	P4.10

MAGNETIC POWDER P4.12



The blue dye magnetic powder P4.12 is used for dry magnetic particle inspection in white light. Being free of colored pigments, it allows a particularly clean application, without leaving stains. In addition, it is a high sensitivity powder.

Average particle size: 85 µm

Related products: [Velnet/Solnet](#) (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3040; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
5 kg jars	01011200	P4.12





MAGNETIC POWDER P4.14



The red dye magnetic powder P4.14 is used for dry magnetic particle inspection and allows inspection both in white light and in UV light.

Average particle size: 75 µm

Related products: [Velnet/Solnet](#) (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3040; PMUC (certificate of compliance upon request)

PACKAGING
5 kg jars

PART NUMBER
01011400

REF.
P4.14

MAGNETIC POWDER P4.16



The black dye magnetic powder P4.16 is used for dry magnetic particle inspection in white light. Being free of colored pigments, it allows a particularly clean application, without leaving stains.

Average particle size: 75 µm

Related products: [Velnet/Solnet](#) (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3040; PMUC (certificate of compliance upon request)

PACKAGING
5 kg jars

PART NUMBER
01011600

REF.
P4.16

MAGNETIC POWDER P4.18



The yellow dye magnetic powder P4.18 is used for dry magnetic particle inspection and allows inspection in both white light and UV light.

Average particle size: 75 µm

Related products: [Velnet/Solnet](#) (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3040; PMUC (certificate of compliance upon request)

PACKAGING
5 kg jars

PART NUMBER
01011800

REF.
P4.18



MAGNETIC POWDER P4.24



The yellow dye magnetic powder P4.24 is used for dry magnetic particle inspection and allows inspection both in white light and in UV light. It has a high sensitivity, due to its high magnetic permeability.

Average particle size: 90 µm

Related products: Velnet/Solnet (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3040; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
5 kg jars	01012400	P4.24

POWDERS FOR THE MAGNETIC BATH PREPARATION

MAGNETIC POWDER K 35



K 35 is a black atomized magnetic powder used to prepare suspensions for magnetic particle inspection – wet method. It can be suspended in a petroleum (oil) based liquid carrier, such as Kerosenoil, or in water with the addition of a wetting agent (such as Ata Fluid A44 or Wetting Agent A38) to improve particle mobility, the wettability of the surface and the corrosion inhibition.

Average particle size: 1 µm

Related products: Velnet/Solnet (preliminary cleaning); Vecoplast (contrast paint)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3042; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
5 kg jars	01023500	K35





MAGNETIC POWDER K 40



K 40 is an atomized red magnetic powder used to prepare suspensions for magnetic particle inspection – wet method; it allows inspection both in white light and in UV light. It can be suspended in a petroleum (oil) based liquid carrier, such as Kerosenoil, or in water with the addition of a wetting agent (such as Ata Fluid A44 or Wetting Agent A38) to improve particle mobility, the wettability of the surface and the corrosion inhibition.

Average particle size: 9 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3042; PMUC (certificate of compliance upon request)

PACKAGING
5 kg jars

PART NUMBER
01023900

REF.
K40

MAGNETIC POWDER K 31-73



K 31.73 is a fluorescent atomized magnetic powder used to prepare suspensions for magnetic particle inspection – wet method. It can be suspended in a petroleum (oil) based liquid carrier, such as Kerosenoil, or in water with the addition of a wetting agent (such as Ata Fluid A44 or Wetting Agent A38) to improve particle mobility, the wettability of the surface and the corrosion inhibition. Due to small size particles, this powder is very sensitive and particularly suitable for surfaces with low roughness.

Average particle size: 3 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3042; PMUC (certificate of compliance upon request)

PACKAGING
5 kg jars

PART NUMBER
01024100

REF.
K31.73



MAGNETIC POWDER K 755



K 755 can be suspended in a petroleum (oil) based liquid carrier, such as Kerosenoil, or in water with the addition of a wetting agent (such as Ata Fluid A44 or Wetting Agent A38) to improve particle mobility, the wettability of the surface and the corrosion inhibition. The powder is characterized by medium/small sized particles, suitable for surfaces with low and medium roughness.

Average particle size: 8 µm

Related products: Velnet/Solnet (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3042; PMUC (certificate of compliance upon request)

PACKAGING

5 kg jars

PART NUMBER

01024400

REF.

K755

MAGNETIC POWDER K 150



K 150 is a fluorescent atomized magnetic powder used to prepare suspensions for magnetic particle inspection – wet method. K 150 can be suspended in a petroleum (oil) based liquid carrier, such as Kerosenoil, or in water with the addition of a wetting agent (such as Ata Fluid A44 or Wetting Agent A38) to improve particle mobility, the wettability of the surface and the corrosion inhibition. The powder is characterized by particularly fluorescent pigments which allow it to be used in environments not totally darkened.

Average particle size: 12 µm

Related products: Velnet/Solnet (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3042; PMUC (certificate of compliance upon request)

PACKAGING

5 kg jars

PART NUMBER

01024050

REF.

K150





DOSES OF POWDER CONCENTRATES FOR THE MAGNETIC BATH PREPARATION – TO BE DILUTED IN OIL OR WATER

PAD 35/50



PAD 35/50 is a fluid concentrate of black magnetic powder to be diluted in water, for wet magnetic particle inspection method. The concentrate contains the anti-rust, surfactant, antifoam product Atafluid A44 and is totally nitrite-free. It must be diluted in 50 L of water.

Average particle size: 1 μ m

Related products: **Velnet/Solnet** (preliminary cleaning); **Vecoplast** (contrast paint)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
1 L containers	01036414	PAD35/50

PAD 31-73/50



PAD 31-73/50 is a fluid concentrate of fluorescent magnetic powder to be diluted in water, for wet magnetic particle inspection method. The concentrate contains the anti-rust, surfactant, antifoam Ata Fluid A44 product and is totally nitrite-free. Thanks to the small size of the particles, this powder is very sensitive and particularly suitable for surfaces with low roughness. The dose is 1 L to be diluted in 50 L of water.

Average particle size: 3 μ m

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
1 L containers	01036413	PAD3173/50-It



PAD 755/50



PAD 755/50 is a fluid concentrate of fluorescent magnetic powder to be diluted in water, for wet magnetic particle inspection method. The concentrate contains the anti-rust, surfactant, antifoam Ata Fluid A44 product and is totally nitrite-free. The powder is characterized by medium/small sized particles, suitable for surfaces with low and medium roughness. The dose is 1 L to be diluted in 50 L of water.

Average particle size: 8 µm

Related products: *Velnet/Solnet* (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
1 L containers	01036311	PAD755/50

PAD 150/50



PAD 150/50 is a fluid concentrate of fluorescent magnetic powder to be diluted in water, for wet magnetic particle inspection method. The concentrate contains the anti-rust, surfactant, antifoam Ata Fluid A44 product and is totally nitrite-free. It is particularly suitable for rough or unprocessed surfaces. The powder is characterized by particularly fluorescent pigments that allow its use even in environments not totally darkened. The dose is 1 L to dilute in 50 L of water.

Average particle size: 12 µm

Related products: *Velnet/Solnet* (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
1 L containers	01036242	PAD150/50





PAD 31-74/50



PAD 31-74/50 is a fluid concentrate of fluorescent magnetic powder to be diluted in water, for wet magnetic particle inspection method. The concentrate contains a anti-rust, surfactant, antifoam product and is totally nitrite-free. The dose is 1 L to be diluted in 50 L of water.

Average particle size: 3 µm

Related products: *Velnet/Solnet* (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
1 L containers	01036114	PAD3174/50

PAD 31-75/100



PAD 31-75/100 is a fluid concentrate of fluorescent magnetic powder to be diluted in water, for wet magnetic particle inspection method. The concentrate contains a anti-rust, surfactant, antifoam product and is totally nitrite-free. The dose is 5 L to be diluted in 100 L of water.

Average particle size: 3 µm

Related products: *Velnet/Solnet* (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
5 L cans	01036115	PAD3175/100

PAD 31-76/500



PAD 31-76/500 is a fluid concentrate of fluorescent magnetic powder to be diluted in water, for wet magnetic particle inspection method. The concentrate contains an anti-rust, surfactant, antifoam product and is totally nitrite-free. The dose is 5 L to be diluted in 500 L of water.

Average particle size: 3 µm

Related products: *Velnet/Solnet* (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
5 L cans	01036116	PAD3176/500



PKD 35/50



PKD 35/50 is a black magnetic powder concentrate in Kerosenoil used to prepare suspensions for wet magnetic particle testing. PKD 35/50 concentrate should be suspended in a petroleum (oil) based liquid carrier, such as Kerosenoil. The dose is 1 L to be diluted in 50 L of Kerosenoil.

Average particle size: 1 µm

Related products: **Velnet/Solnet** (preliminary cleaning); **Vecoplast** (contrast paint)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3042; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
1 L containers	01036416	PKD35/50

PKD 31-73/50



PKD 31-73/50 is a fluorescent magnetic powder concentrate in Kerosenoil used to prepare suspensions for wet magnetic particle testing. KD 31-73/50 concentrate should be suspended in a oil distillates based liquid carrier, such as Kerosenoil. The dose is 0,5 L to be diluted in 50 L of Kerosenoil.

Average particle size: 3 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3042; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
0,5 L containers	01036410	PKD3173/50

PKD 755/50



PKD 755/50 is a fluorescent magnetic powder concentrate in Kerosenoil used to prepare suspensions for wet magnetic particle testing. KD 755/50 concentrate should be suspended in a oil distillates based liquid carrier, such as Kerosenoil. The dose is 0,5 L to be diluted in 50 L of Kerosenoil.

Average particle size: 8 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3042; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
0,5 L containers	01036406	PKD755/50





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MAGNETIC LIQUIDS READY-TO-USE

LA 31-73



LA 31-73 is a ready-to-use suspension of fluorescent magnetic powder in water, for wet magnetic particle testing method. The suspension contains the anti-rust, surfactant, antifoam product Ata Fluid A44 and is totally nitrite-free. The powder is characterized by medium/small sized particles, suitable for surfaces with low roughness.

Average particle size: 3 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING
10 L cans

PART NUMBER
02087400

REF.
LA3173

LA 755



LA 755 is a ready-to-use suspension of fluorescent magnetic powder in water, for wet magnetic particle testing method. The suspension contains the anti-rust, surfactant, antifoam product Ata Fluid A44 and is totally nitrite-free. The powder is characterized by medium/small sized particles, suitable for surfaces with low and medium roughness.

Average particle size: 8 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING
10 L cans

PART NUMBER
02087405

REF.
LA755



LA 150



LA 150 is a ready-to-use suspension of fluorescent magnetic powder in water, for wet magnetic particle testing method. The suspension contains the anti-rust, surfactant, antifoam product Ata Fluid A44 and is totally nitrite-free. It is suitable for rough or unworked surfaces. The powder is characterized by particularly fluorescent pigments which allow it to be used in environments not totally darkened.

Average particle size: 12 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; AMS 3044; AS 4792; PMUC (certificate of compliance upon request)

PACKAGING
10 L cans

PART NUMBER
02087406

REF.
LA150

LK 35



LK 35 is a ready-to-use suspension of black magnetic powder in Kerosenoil for magnetic particle testing, wet method. Magnetic particles small sizes allows the use of this product on a wide range of surfaces, while ensuring excellent sensitivity. If applied with Vecoplast contrast paint, it guarantees an excellent color contrast even on dark surfaces, so smallest discontinuities will be visible.

Average particle size: <1 µm

Related products: **Velnet/Solnet** (preliminary cleaning); **Vecoplast** (contrast paint)

In compliance with: ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3044; AMS 3045; AMS 2641; PMUC (certificate of compliance upon request)

PACKAGING
10 L cans

PART NUMBER
02087000

REF.
LK35/50





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CATALOGUE – Consumables

LK 31-73



LK 31-73 is a ready-to-use suspension of fluorescent magnetic powder in Kerosenoil for magnetic particle testing, wet method. The fluorescent pigment used allows for high contrast under UV light. Adhesion to any type of surface is allowed by particles size.

Average particle size: 3 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: **ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3044; AMS 3045; AMS 2641; PMUC (certificate of compliance upon request)**

PACKAGING
10 L cans

PART NUMBER
02087300

REF.
LK31-73

LK 755



LK 755 is a ready-to-use suspension of fluorescent magnetic powder in Kerosenoil for magnetic particle testing, wet method. The powder is characterized by medium/small sized particles, suitable for surfaces with low and medium roughness.

Average particle size: 8 µm

Related products: **Velnet/Solnet** (preliminary cleaning)

In compliance with: **ASME Sect. V – Art. 7; ASTM E709; ASTM E1444; EN ISO 9934-2; AMS 3044; AMS 3045; AMS 2641; PMUC (certificate of compliance upon request)**

PACKAGING
10 L cans

PART NUMBER
02087305

REF.
LK755



SUSPENSION VEHICLES

KEROSENOIL K 41



Kerosenoil K 41 is a refined petroleum distillate used for the suspension of magnetic particles, wet method.

Flash Point: >100°C

Related products: *Velnet/Solnet* (preliminary cleaning); *K35, K40, K150, K240, K755, K31/73, PKD31-73/50, PKD 35/50, PKD 755/50* (fluorescent magnetic particles)

In compliance with: *EN ISO 9934-2; ASTM E709; AMS 2641; ASTM E1444*

PACKAGING	PART NUMBER	REF.
10 L cans	02098010	K41

KEROSENOIL K 42



Kerosenoil K 42 is a refined petroleum distillate used for the suspension of magnetic particles, wet method. This liquid is characterized by a higher flash point than K 41.

Flash Point: >110°C

Related products: *Velnet/Solnet* (preliminary cleaning); *K35, K40, K150, K240, K755, K31/73, PKD31-73/50, PKD 35/50, PKD 755/50* (fluorescent magnetic particles)

In compliance with: *EN ISO 9934-2; ASTM E709; AMS 2641; ASTM E1444*

PACKAGING	PART NUMBER	REF.
10 L cans	02098012	K42





CONTRAST PAINT

VECOPLAST



Vecoplast is a ready-to-use fast drying contrast paint, which generates a thin white film with high opacity. Particularly suitable for improving particle visibility during inspection with visible wet and dry method magnetic particles. The contrast paint is easily removable using the Velnet/Solnet product.

Flash Point: -20°C

Related products: [Velnet/Solnet](#) (preliminary cleaning/remover)

In compliance with: EN ISO 9934-2; ASME Sect. V – Art. 7; ASTM E1444; ASTM E709; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
10 L cans	02098100	V42

WATER ADDITIVES

ATA FLUID A44



Ata Fluid A44 is an excellent defoam and anticorrosive concentrated liquid used for the conditioning of water-based magnetic particles suspensions.

It prevents the formation of algae and bacterial colonies.

Dilution: 0,5-1,0%

Related products: [Velnet/Solnet](#) (preliminary cleaning)

In compliance with: AS 4792

PACKAGING	PART NUMBER	REF.
10 L cans	02098050	A44



WETTING AGENT A38



Wetting Agent A38 is an excellent concentrated liquid defoamer and wetting agent for the conditioning of water-based magnetic particles suspensions.

Dilution: 0,5-1,0%

Related products: [Velnet/Solnet](#) (preliminary cleaning)

PACKAGING	PART NUMBER	REF.
10 L cans	02098020	A38

DEFOAMER A43



Defoamer A43 is a concentrated liquid used for the conditioning of water-based magnetic particles suspensions; it prevents the formation of foam.

Dilution: 0,05-0,5%

Related products: [Velnet/Solnet](#) (preliminary cleaning)

PACKAGING	PART NUMBER	REF.
100 ml containers	02098040	A43

RUST INHIBITOR CONCENTRATE 1883



The Rust Inhibitor Concentrate 1883 is an excellent water-miscible liquid product used when effective corrosion inhibition is required, without generating foam or causing significant alterations to the physical properties of the water itself.

Dilution: 0,5-3,0%

Related products: [Velnet/Solnet](#) (preliminary cleaning)

In compliance with: [AS 4792](#)

PACKAGING	PART NUMBER	REF.
10 L cans	02098074	1883





COMPARATIVE CHART OF MAGNETIC POWDERS CHARACTERISTICS

	METHOD	SUSPENSION VEHICLE	COLOUR	COLOUR UNDER UV LIGHT	USAGE TEMPERATURE	AVERAGE PARTICLE SIZE	PRELIMINARY CLEANING	DILUTION
POWDER P4.10	Dry method	NA	Grey	NA	< 300°C	90 µm	Velnet/Solnet	NA
POWDER P4.12	Dry method	NA	Blue	NA	< 300°C	85 µm	Velnet/Solnet	NA
POWDER P4.14	Dry method	NA	Red	Bright orange	< 180°C	75 µm	Velnet/Solnet	NA
POWDER P4.16	Dry method	NA	Black	NA	< 300°C	75 µm	Velnet/Solnet	NA
POWDER P4.18	Dry method	NA	Yellow-green	Bright green	< 180°C	75 µm	Velnet/Solnet	NA
POWDER P4.24	Dry method	NA	Yellow	Bright yellow-green	< 180°C	90 µm	Velnet/Solnet	NA
POWDER K 35	Wet method	Water or kerosenoil	Black	NA	< 48°C	1 µm	Velnet/Solnet	8-10 g/L
POWDER K 40	Wet method	Water or kerosenoil	Red	Bright orange	< 48°C	9 µm	Velnet/Solnet	10 g/L
POWDER K 31-73	Wet method	Water or kerosenoil	Green	Bright yellow-green	< 48°C	3 µm	Velnet/Solnet	1,0 – 1,2 g/L
POWDER K 755	Wet method	Water or kerosenoil	Green	Bright yellow-green	< 48°C	8 µm	Velnet/Solnet	1,2 – 1,5 g/L
POWDER K 150	Wet method	Water or kerosenoil	Dark green	Emerald green	< 48°C	12 µm	Velnet/Solnet	1,2 – 1,5 g/L
PAD 35/50	Wet method	Water	Black	NA	< 48°C	1 µm	Velnet/Solnet	1 L in 50 L water
PAD 31-73/50	Wet method	Water	Dark green	Bright yellow-green	< 48°C	3 µm	Velnet/Solnet	1 L in 50 L water
PAD 755/50	Wet method	Water	Dark green	Bright yellow-green	< 48°C	8 µm	Velnet/Solnet	1 L in 50 L water
PAD 150/50	Wet method	Water	Dark green	Bright yellow-green	< 48°C	12 µm	Velnet/Solnet	1 L in 50 L water
PAD 31-74/50	Wet method	Water	Red	Bright yellow-green	< 48°C	3 µm	Velnet/Solnet	1 L in 50 L water



COMPARATIVE CHART OF MAGNETIC POWDERS CHARACTERISTICS

	METHOD	SUSPENSION VEHICLE	COLOUR	COLOUR UNDER UV LIGHT	USAGE TEMPERATURE	AVERAGE PARTICLE SIZE	PRELIMINARY CLEANING	DILUTION
PAD 31-75/100	Wet method	Water	Red	Bright yellow-green	< 48°C	3 µm	Velnet/Solnet	5 L in 100 L water
PAD 31-76/500	Wet method	Water	Red	Bright yellow-green	< 48°C	3 µm	Velnet/Solnet	5 L in 500 L water
PKD 35/50	Wet method	Kerosenoil	Black	NA	< 48°C	1 µm	Velnet/Solnet	1 L in 50 L kerosenoil
PKD 31-73/50	Wet method	Kerosenoil	Green	Bright yellow-green	< 48°C	3 µm	Velnet/Solnet	0,5 L in 50 L kerosenoil
PKD 755/50	Wet method	Kerosenoil	Green	Bright yellow-green	< 48°C	8 µm	Velnet/Solnet	0,5 L in 50 L kerosenoil
LA 31-73	Wet method	Water	Green	Bright yellow-green	< 48°C	3 µm	Velnet/Solnet	Ready to use
LA 755	Wet method	Water	Green	Bright yellow-green	< 48°C	8 µm	Velnet/Solnet	Ready to use
LA 150	Wet method	Water	Green	Bright yellow-green	< 48°C	12 µm	Velnet/Solnet	Ready to use
LK 35	Wet method	Kerosenoil	Black	NA	< 80°C (Bulk) < 50°C (Spray)	1 µm	Velnet/Solnet	Ready to use
LK 31-73	Wet method	Kerosenoil	Green	Bright yellow-green	< 48°C	3 µm	Velnet/Solnet	Ready to use
LK 755	Wet method	Kerosenoil	Green	Bright yellow-green	< 48°C	8 µm	Velnet/Solnet	Ready to use

Typical values.



ULTRASONIC TESTING PRODUCTS

COUPLANTS

GREEN GEL U 45



Green Gel U 45 is a water-based thixotropic green coupling gel that can be used in the temperature range $-20^{\circ}\text{C} / 120^{\circ}\text{C}$. It is composed by anti-corrosive so as not to affect the surfaces being tested. Suitable for use on various types of surfaces, smooth or uneven, it is also recommended for non-optimal situations, such as vertical and underhead inspections. Moreover, as it fluoresces under UV light, it is easy to detect and remove. The product is non-toxic to the skin, has no hazard labelling and is not harmful to the environment.

Recommended dilution in potable water: 0 to 1:1

In compliance with: ASME Sect. V – Art. 5 (T-533); FAA AC 25-29 (glycerin free); MIL-STD-271; PMUC (certificate of compliance upon request)

PACKAGING	PART NUMBER	REF.
5 kg buckets	01049015	U45

COUPLANTS U 47 & U 51



U 47 and U 51 are water-based laminating gels: the former is transparent, while the latter is white. Both are suitable for the most common applications under normal conditions of use for both defect and thickness checks. The presence of anti-corrosives prevents oxidation, so it is not essential to remove the gel after the check. Both products are non-toxic to the skin, have no hazard labels and are not harmful to the environment.

Recommended dilution in potable water: 0 to 1:1

In compliance with: ASME Sect. V – Art. 5 (T-533); FAA AC 25-29 (glycerin free); MIL-STD-271; PMUC (certificate of compliance upon request)

U 47:	PACKAGING 5 kg buckets	PART NUMBER 01049030	REF. U47
U 51:	PACKAGING 5 kg buckets	PART NUMBER 01049050	REF. U51



COUPLANTS U 49 & U 53



U 49 and U 53 are water-based peeling gels: the former is transparent, while the latter is white. Both are suitable for the most common applications under normal conditions of use for both defect and thickness checks. The presence of anti-corrosives prevents oxidation, so it is not essential to remove the gel after the check. Both products are non-toxic to the skin, have no hazard labels and are not harmful to the environment. Their characteristic of being peeling allows for faster removal of the residue.

Recommended dilution in potable water: 0 to 1:1

In compliance with: ASME Sect. V – Art. 5 (T-533); MIL-STD-271; PMUC (certificate of compliance upon request)

	PACKAGING	PART NUMBER	REF.
U 49:	5 kg buckets	01049040	U49
U 53:	5 kg buckets	01049060	U53

POWDER U 55+AC



U 55+AC is a powder used for the preparation of a transparent water-based coupling gel, the viscosity of which can be adjusted according to the amount of water used. The gel obtained is suitable for the most common applications under normal conditions of use for both defect and thickness checks. It contains anti-corrosive so as not to affect the surfaces under examination. The product is non-toxic to skin, has no danger labelling and is not harmful to the environment.

Recommended dilution in potable water: 33 g/l

In compliance with: ASME Sect. V – Art. 5 (T-533); FAA AC 25-29 (glycerin free); MIL-STD-271; PMUC (certificate of compliance upon request)

	PACKAGING	PART NUMBER	REF.
	200 g envelope plastic bags	01049064	U55
	5 kg envelope plastic bags		





COMPARATIVE CHART OF ULTRASONIC COUPLANTS CHARACTERISTICS

	APPEARANCE	ODOR	DENSITY AT 20°C	pH	WASHABILITY	RECOMMENDED DILUTION IN POTABLE WATER	PEELING
GREEN GEL U 45	Transparent green gel	Odorless	1,03 kg/L	8	Water	From 0 to 1:1	No
COUPLANT U 47	Transparent gel	Odorless	1,00 kg/L	7-8	Water	From 0 to 1:1	No
COUPLANT U 49	Transparent gel	Odorless	1,00 kg/L	7-8	Water	From 0 to 1:1	Yes
COUPLANT U 51	White gel	Odorless	1,03 kg/L	7-8	Water	From 0 to 1:1	No
COUPLANT U 53	White gel	Odorless	1,03 kg/L	7-8	Water	From 0 to 1:1	Yes
POWDER U 55+AC	Powder to prepare transparent gel	Odorless	NA	~7	Water	33 g/L	NA

Typical values.

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