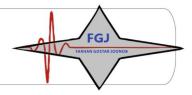


MF-655 WB

پترو فرهان گستر جنوب



Water-based Fluorescent Magnetic Ink

MAGNAGLO® MF-655 WB is a liquid concentrate used to prepare water-based fluorescent inks for wet method magnetic particle testing. Inks produced using MF-655 WB give clear bright yellow/green indications when viewed in a darkened area under UV(A) of peak wavelength 365 nm, and offer enhanced corrosion protection.

When used in conjunction with suitable magnetising equipment and a UV(A) source, MF-655 WB inks will locate fine surface and slightly subsurface defects.

FEATURES

- · Clear, bright indications under UV light
- · High sensitivity
- · Easy post-testing clean up
- Excellent fluorescent contrast for quick identification
- · Excellent particle mobility
- Good dispersion stability
- Great concentration consistency
- Superior surface wetting
- Non-foaming
- Even surface coverage for better detection
- Enhanced corrosion protection meets Corrosion Level 0 according to DIN 51360
- · Free from silicone, chromates and nitrates
- Non-hazardous

APPLICATIONS

Defect location: surface and slightly subsurface Ideal for:

- · Detecting very fine to fine discontinuities
- Machined parts
- Smooth surface finish
- Critical applications
- · High volume testing
- After secondary processing
- Mixing with hard-water

Ideal for:

- Inclusions
- Seams
- · Shrink cracks
- Tears
- Laps
- Flakes
- · Welding defects
- · Grinding cracks
- · Quenching cracks
- Fatigue cracks
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 - (c) +982144584619
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SPECIFICATION COMPLIANCE

- AMS3044
- ASME BPVC-V
- ASTM E709
- ASTM E1444/E1444M
- EN ISO 9934-2
- MIL-STD-2132
- NAVSEA 250-1500-1
- SAE AS4792

COMPOSITION

A mixture of fluorescent magnetic particles, a corrosion inhibitor, wetting agents and foam control additives.

PRODUCT PROPERTIES

Form and colour	Brown liquid		
Density	1.1 g/ml		
SAE sensitivity	7 - 8		
Magnetic particles	MG 601		
Particle size range	3 - 5 μm		

Like all Magnaflux materials, MF-655 WB is closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability.

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USER RECOMMENDATIONS

NDT Method	Magnetic Particle Testing, Fluorescent, Wet Method		
Storage temperature	10°C to 30°C		
Usage temperature	5°C to 55°C		
Suspension Vehicle	Water		
Water Bath Additive	WA-1 water conditioner WA-2 antifoam		
Cleaner	SKC-S		
UV lamps	EV6000, EV6500, ST700		
Accessories	Centrifuge Tube		

INSTRUCTIONS FOR USE

Clean the component before testing to provide a suitable test surface.

Use an appropriate measuring device to make up the ink bath based on the following guide volumes:

Quantity of	Quantity of water	
MF-655 WB	Ratio 1:40	Ratio 1:60
0.5 litres (500 ml)	20 litres	30 litres
0.75 litres (750 ml)	30 litres	45 litres
1 litre (1,000 ml)	40 litres	60 litres

Once the bottle is empty, rinse it with water to capture any remaining product and add this to the bath. Mix thoroughly and check that the bath has the correct settlement volume before use.

Settlement volumes (after 1 hour):

0.21 ml (1:40 ratio) 0.13 ml (1:60 ratio)



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INSTRUCTIONS FOR USE continued

Apply the ink by spraying, flooding or immersion, depending on your chosen method (see below).

Wet continuous method

Apply the ink to all surfaces of the component and apply a magnetising current. Remember to stop the flow of ink before the current is switched off, otherwise the force of the ink flood can wash away indications.

Wet residual method

This method is generally less sensitive than the continuous method and is more susceptible to rapid particle depletion and bath contamination.

- Pre-magnetise the part to be tested.
- · Imerse the part in a bath of the ink.
- · Remove it and allow it to drain.
- · Inspect the part.

Be sure to agitate the ink before and regularly during use to ensure uniformity of mix. During use, the magnetic content of any ink will become depleted so you will need to check your bath strength at least once each day. The most widely-used way of checking an ink's settlement volume is by using a graduated ASTM pear-shaped centrifuge tube.

When the settlement volume approaches the lower limit, check the bath. If it appears contaminated, or if it has been in use for a long time, replace the contents. If it is still clean and uncontaminated, you can add either more MF-655 B or some 601.1 to the bath.

As before, make sure that the ink is agitated immediately prior to use to ensure complete mixing of the contents.

After inspection, remember to completely demagnetise your components before cleaning, to ensure easy removal of any residual powder particles. Cleaned components can be treated with a temporary film protective coating if you need longer-lasting corrosion protection.

PACKAGING AND PART NUMBERS





061C063 (x 12)

061C064 (x 4)

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the Safety Data Sheets, which are available at magnaflux.eu

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