# Inspection Certificate

**MANUFACTURE DATE:16/03/2018**

Abnahmeprufzeugnis DIN EN 10204 3.1
Certificat De reception
Certificado di collaudo
Keuringsrapport

**SUBJECT:Magnaglo 14HF Oil Based Fluorescent MPI Ink**

**BATCH No:1803167**
**B.B.E.:MAR 2023**

We hereby certify that the above Magnetic Particle Inspection Material meets the requirements of Aerospace Material specification AMS-3045E, Magnetic Particles, Fluorescent, Wet method, Oil vehicle.

| TEST | PARAGRAPH | LIMIT | RESULT |
|---|---|---|---|
| Contamination | 3.3.1 | No foreign material, scum or agglomeration | Conforms |
| Concentration | 3.3.2 | 0.1 - 0.4 ml magnetic particles per 100 ml | Conforms |
| Sensitivity | 3.3.3 | 7 Hole indications shown | Conforms |
| Colour | - | Fluorescence: yellow green | Conforms |

We further certify that the above Magnetic Particle Inspection Material meets the requirements of the following specifications:

A. (For Aerosols only) AMS-3046F.

B. ASME Boiler and Pressure Vessel Code, Section V, 2004, 2007, 2010, 2013,2015 & 2017Edition Nondestructive Examination, article 7, including 2005, 2006, 2008, 2009b &2011aAddenda, Paragraphs, T731 and Article 25 as applicable.

C. ASTM E 709-15, Paragraphs 8.1.2, 8.2, 8.3, 8.5 & 8.5.3.

D. ASTM E1444/E1444M-16, Paragraphs 5.5.2 and 5.5.3.

E. AMS 2641C Type 1 Oil vehicle. Flash point greater then 93ºC.

F. Rolls Royce RRP 58004 (CSS 231).

G. SNECMA DMR70-520.

H. SAFRAN In-5300.

I. AMS 3044F (Magnetic particles used in the product).

We further certify that this material does not contain mercury as a basic element and no mercury bearing equipment was used in its manufacture.

Certification is issued under the auspices of the Quality Assurance Manager.

(Authorised Employee)

For and on behalf of MAGNAFLUX (A DIVISION OF ITW LTD)

***Notes***:

1. Our batch number appears on the label of bulk containers. Aerosols have batch numbers printed on the bottom of the container.Bulk materials have a minimum shelf life of 5 years from date of manufacture. Aerosols have a minimum shelf life of 3 years from date of manufacture.
2. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of anymaterial.



**Magnaflux** (A Division of ITW Ltd),
Faraday Road, South Dorcan Industrial Estate,
Swindon, Wiltshire, SN3 5HE, UK

# Inspection Certificate

**SUBJECT:** Magnaglo14HF Oil Based Fluorescent MPI Ink **BATCH No:** 1803167 **B.B.E.:** MAR 2023

**Specification:** EN ISO 9934-2

When tested at the time of manufacture the following results were obtained:

| **Einzeleigenschaft /** ***Characteristic*** | Ermittlungen nach DIN EN ISO 9934-2 Abschnitt | **Anforderungen /** ***Quality requirement*** | **Ergebnis /** ***Batch testing*** |
|---|---|---|---|
| **Eignung** ***Performance*** | 7.1 | Anzeigefähigkeit auf Vergleichskörper 1 (#072814)<br>Ermittlung der Anzeigenlängen auf Vergleichskörper2 /<br>*Indication on reference block 1 (#072814)*<br>*Indication length of reference block 2* | sehr gut<br>Gesamtlänge der beidenAnzeigen: 8.0 cm<br>*very good*<br>*Total length of indication: 8.0 cm* |
| **Farbe/** ***Colour*** | 7.2 | HellbrauneFlüssigkeit<br>*Light brown liquid* | Farbeidentisch/<br>*Colour identical* |
| **Korngröße/** ***Particle size*** | 7.3 | d Ó1,5µm und d Ò40µm | MittlererKorndurchmesser 10.22 µm<br>*Average diameter 10.22µm* |
| **Fluoreszenzkoeffitient/** ***Fluorescence coefficient*** | 7.5 | ƀ > 1.5 cd/Watt | ƀ = 2.22 cd/Watt |
| **Fluoreszenz der Trägerflüssigkeit/** ***Fluorescence of carrier liquid*** | 7.6 | Nichthellerals Quinine-Sulfat-Lösung/<br>*Not brighter than quinine sulphate solution* | Anforderungerfüllt/<br>*Requirement fulfilled.* |
| **Flammpunkt** ***Flashpoint*** | 7.7 | Report | Bulk 103°C<br>Aerosol -40°C |
| **Viskosität** ***Viscosity*** | 7.9 | Bei 20°C wenigerals 5mPa s<br>*Less than 5mPa s at 20°C* | 3.0 mPa s bei 20°C<br>*3.0 mPa s at 20°C* |
| **MechanischeStabilität Kurzzeittest** ***Mechanical stability Short term test*** | 7.10 | KeineAbnahme der Empfindlichkeit Nachdem test<br>*Nodecrease in sensitivityaftertest* | Anforderungenerfüllt/<br>*Requirement fulfilled* |
| **Schäumverhalten/** ***Foaming*** | 7.11 | KeinesignifikanteSchaumbildung/<br>*No significant foaming* | Anforderungenerfüllt/<br>*Requirement fulfilled* |
| **Lagerungsbeständigkeit/** ***Storage stability*** | 7.13 | | 5 Jahre/<br>*5 years* |

VorstehendeAngabensind die ErgebnisseunsererQualitätsprüfung. Sie entbinden den Käufernicht von eineringangsprüfung und habennicht die Bedeutung, die Eignung des ProduktesfüreinenkonkretenEinsatzzweckzuzusichern.

*The above information is derived from our quality checks. It does not relieve the purchaser from examining the product upon delivery and gives no assurance of the product for any particular purpose.*

Certification is issued under the auspices of the Quality Assurance Manager.

Authorised Employee)

For and on behalf of MAGNAFLUX (A DIVISION OF ITW LTD)



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