

MANUFACTURE DATE: 17/09/2019Abnahme prufzeugnis DIN EN 10204 3.1
Certificat De reception
Certificado di collaudo
Keuringsrapport**SUBJECT:** Magnaglo 14HF Oil Based Fluorescent MPI Ink**BATCH No:** 1909531**B.B.E.:** SEP 2024

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

<u>TEST</u>	<u>PARAGRAPH</u>	<u>LIMIT</u>	<u>RESULT</u>
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-3046G.
- B. ASME Boiler and Pressure Vessel Code, 2019 Edition, Section V, Non-destructive Examination.
- 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 than 93°C.
- F. Rolls Royce RRP 58004 (CSS 231).
- G. SNECMA DMR70-520.
- H. SAFRAN In-5300.
- I. AMS 3044G (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:

- 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.
- The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.

SUBJECT: Magnaglo 14HF Oil Based Fluorescent MPI Ink

BATCH No: 1909531

B.B.E.: SEP 2024

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) Ermittlung der Anzeigenlängen auf Vergleichskörper2 / Indication on reference block 1 (#072814) Indication length of reference block 2	sehr gut Gesamtlänge der beiden Anzeigen: 5.0 cm very good Total length of indication: 5.0 cm
Farbe/ Colour	7.2	Hell braune Flüssigkeit Light brown liquid	Farbe identisch/ Colour identical
Korngröße/ Particle size	7.3	$d \geq 1,5\mu\text{m}$ und $d \leq 40\mu\text{m}$	Mittlerer Korndurchmesser 11.85 μm Average diameter 11.85 μm
Fluoreszenzkoeffizient/ Fluorescence coefficient	7.5	$\beta > 1.5$ cd/Watt	$\beta = 3.8$ cd/Watt
Fluoreszenz der Trägerflüssigkeit/ Fluorescence of carrier liquid	7.6	Nicht heller als Quinine-Sulfat-Lösung/ Not brighter than quinine sulphate solution	Anforderung erfüllt/ Requirement fulfilled.
Flammpunkt Flashpoint	7.7	Report	Bulk 108.0°C Aerosol -40°C
Viskosität Viscosity	7.9	Bei 20°C weniger als 5mPa s Less than 5mPa s at 20°C	2.49 mPa s bei 20°C 2.49 mPa s at 20°C
Mechanische Stabilität Kurzzeittest Mechanical stability Short term test	7.10	Keine Abnahme der Empfindlichkeit Nach dem test No decrease in sensitivity after test	Anforderungen erfüllt/ Requirement fulfilled
Schäumverhalten/ Foaming	7.11	Keine signifikante Schaumbildung/ No significant foaming	Anforderungen erfüllt/ Requirement fulfilled
Lagerungsbeständigkeit/ Storage stability	7.13		5 Jahre/ 5 years

Vorstehende Angaben sind die Ergebnisse unserer Qualitätsprüfung. Sie entbinden den Käufer nicht von einer eingangsprüfung und haben nicht die Bedeutung, die Eignung des Produktes für einen konkreten Einsatzzweck zuzusichern.

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)