Inspection Certificate

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

BATCH No: **2009379**

Abnahme prufzeugnis DIN EN 10204 3.1
Certificat De reception
Certificado di collaudo
Keuringsrapport

MANUFACTURE DATE: **24/09/2020**

B.B.E.: **SEP 2025**

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.

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-3046H.

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 & 8.5.4.1.

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

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

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:

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 any material.

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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: 8 cm *very good* *Total length of indication: 8 cm*
Farbe/ ***Colour***	7.2	Hell braune Flüssigkeit *Light brown liquid*	Farbe identisch/ *Colour identical*
Korngröße/ ***Particle size***	7.3	DI (10%) = Report Da (50%) = Report Du (90%) = Report	*7.54* *11.56* *16.46*
Fluoreszenzkoeffitient/ ***Fluorescence coefficient***	7.5	Shall be within 10% of the type testing	103.56%
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 103.5°C Aerosol -40°C
Viskosität ***Viscosity***	7.9	Bei 20°C weniger als 5mPa s *Less than 5mPa s at 20°C*	3.47 mPa s bei 20°C *3.47 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 ingangsprüfung 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)

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