

MANUFACTURE DATE:09-10/04/2018Abnahmeprüfzeugnis DIN EN 10204 3.1
Certificat De reception
Certificado di collaudo
Keuringsrapport**SUBJECT:**Magnaglo 14HF Oil Based Fluorescent MPI Ink Aerosol **BATCH No:**180502
B.B.E.: APR 2021

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.

<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-3046F.
- B. ASME Boiler and Pressure Vessel Code, Section V, 2004, 2007, 2010, 2013, 2015 & 2017 Edition Nondestructive Examination, article 7, including 2005, 2006, 2008, 2009b & 2011a Addenda, 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 than 93°C.
- 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:

- 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.

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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 Vergleichskörper 2 / Indication on reference block 1 (#072814) Indication length of reference block 2	sehr gut Gesamtlänge der beiden Anzeigen: 8.0 cm very good Total length of indication: 8.0 cm
Farbe/ Colour	7.2	Hellbraune Flüssigkeit Light brown liquid	Farbe identisch/ Colour identical
Korngröße/ Particle size	7.3	d $\bar{O}$ 1,5 μ m und d $\bar{O}$ 40 μ m	Mittlerer Korndurchmesser 10.6 μ m Average diameter 10.6 μ m
Fluoreszenzoeffizient/ Fluorescence coefficient	7.5	$\dagger > 1.5$ cd/Watt	$\dagger = 2.19$ 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 102°C Aerosol -40°C
Viskosität Viscosity	7.9	Bei 20°C weniger als 5 mPa s Less than 5 mPa s at 20°C	1.9 mPa s bei 20°C 1.9 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	Anforderung erfüllt/ Requirement fulfilled
Schäumverhalten/ Foaming	7.11	Keine signifikante Schaumbildung/ No significant foaming	Anforderung erfüllt/ Requirement fulfilled
Lagerungsbeständigkeit/ Storage stability	7.13		3 Jahre/ 3 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 zu sichern.

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.

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Authorised Employee)



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