Inspection Certificate

MANUFACTURE DATE:12-15/01/2018

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

SUBJECT:Magnaglo 14HF Oil Based Fluorescent MPI Ink Aerosol **BATCH No:180107**
B.B.E.:JAN 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.

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

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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 beidenAnzeigen: 8.0 cm *very good* *Total length of indication: 8.0 cm*
Farbe/ ***Colour***	7.2	HellbrauneFlüssigkeit *Light brown liquid*	Farbeidentisch/ *Colour identical*
Korngröße/ ***Particle size***	7.3	d Ó1,5µm und d Ò40µm	MittlererKorndurchmesser 10.6 µm *Average diameter 10.6 µm*
Fluoreszenzkoeffitient/ ***Fluorescence coefficient***	7.5	ƀ > 1.5 cd/Watt	ƀ = 2.19 cd/Watt
Fluoreszenz der Trägerflüssigkeit/ ***Fluorescence of carrier liquid***	7.6	Nichthellerals Quinine-Sulfat-Lösung/ *Not brighter than quinine sulphate solution*	Anforderungerfüllt/ *Requirement fulfilled.*
Flammpunkt ***Flashpoint***	7.7	Report	Bulk 102°C Aerosol -40°C
Viskosität ***Viscosity***	7.9	Bei 20°C wenigerals 5mPa s *Less than 5mPa s at 20°C*	3.0 mPa s bei 20°C *3.0 mPa s at 20°C*
MechanischeStabilität Kurzzeittest ***Mechanical stability Short term test***	7.10	KeineAbnahme der Empfindlichkeit Nachdem test *Nodecrease in sensitivityaftertest*	Anforderungenerfüllt/ *Requirement fulfilled*
Schäumverhalten/ ***Foaming***	7.11	KeinesignifikanteSchaumbildung/ *No significant foaming*	Anforderungenerfüllt/ *Requirement fulfilled*
Lagerungsbeständigkeit/ ***Storage stability***	7.13		3 Jahre/ *3 years*

VorstehendeAngabensind die ErgebnisseunsererQualitätsprüfung. Sie entbinden den Käufernicht von einer eingangsprüfung und habennicht die Bedeutung, die Eignung des Produktesfüreinenkonkreten Einsatzzweckzuzusichern.

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)

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