

## Inspection Certificate

Abnahmeprüfungszeugnis DIN EN 10204.3.1

Certificat De reception

Certificado di collaudo

Keuringsrapport



|                            |                       |                     |                                                        |
|----------------------------|-----------------------|---------------------|--------------------------------------------------------|
| <b>Batch Number</b>        | <b>251002</b>         | <b>Product Name</b> | Magnaglo 14HF Oil Based<br>Fluorescent MPI Ink Aerosol |
| <b>Date of Manufacture</b> | 02/10/2025 06/10/2025 | <b>B.B.E.</b>       | 10/2030                                                |

### Specification: Specification

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.

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

- A. (For Aerosols only) AMS-3046J.
- B. ASME Boiler and Pressure Vessel Code, 2025 Edition, Section V, Non-destructive Examination.
- C. ASTM E 709-21, Paragraphs 8.1.2, 8.2, 8.3, 8.5, 8.5.3 & 8.5.4.1.
- D. ASTM E1444/E1444M-25, Paragraphs 5.5.2 and 5.5.3.
- E. AMS 2641D 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 3044H (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.

| Test          | Section | Limit | Result |
|---------------|---------|-------|--------|
| Specification |         |       | Passed |

### Specification: AMS-3045G test results

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

| Test                                        | Section | Limit                                      | Result        |
|---------------------------------------------|---------|--------------------------------------------|---------------|
| Contamination                               | 3.3.1   | No foreign material, scum or agglomeration | Passed        |
| Concentration                               | 3.3.2   | 0.1 - 0.4 mL magnetic particles per 100mL  | 0.19mL        |
| Sensitivity-Ketos Ring Indications (SMT 24) | 3.3.3   | 7 Hole indications shown                   | 7 indications |
| Colour                                      |         | Fluorescence : Yellow Green                | Passed        |

### Specification: EN ISO 9934-2

When tested at the time of manufacture the following results were obtained. The 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.

| Test                          | Section | Limit                                           | Result   |
|-------------------------------|---------|-------------------------------------------------|----------|
| Performance Reference block 1 | 7.1     | Indication on Reference Block 1 (#072814)       | Passed   |
| Performance Reference block 2 | 7.1     | Total length of indication on Reference Block 2 | 9cm      |
| Colour                        | 7.2     | Light Brown Liquid                              | Passed   |
| Particle Size - dl (SMT 41)   | 7.3     | Report                                          | 5.70 µm  |
| Particle Size - da (SMT 41)   | 7.3     | Report                                          | 8.74 µm  |
| Particle Size - du (SMT 41)   | 7.3     | Report                                          | 12.81 µm |
| Fluorescent Co-Efficient      | 7.5     | Shall be within 10% of the type testing         | 98.71%   |
| Fluorescence of Carrier Fluid | 7.6     | Not brighter than quinine sulphate solution     | Passed   |
| Flashpoint (SMT 14)           | 7.7     | Report                                          | 110.5 °C |

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|                                 |      |                                       |                    |
|---------------------------------|------|---------------------------------------|--------------------|
| Viscosity                       | 7.9  | Less than 5mPa s at 20°C              | 3.34 mPa s at 20°C |
| Mechanical Short Term Stability | 7.10 | No decrease in sensitivity after test | Passed             |
| Foaming                         |      | No significant foaming                | Passed             |
| Storage Stability               | 7.13 | 5 Years                               | Passed             |

--- EOR ---

Prepared by

Approved by

### Notes:

1. Our batch number appears on the label of bulk containers. Aerosols have batch numbers printed on bottom of the container.
2. Most specifications require test results stated in percent, but some require parts per million (ppm). To convert "percent" figures to "parts per million" move the decimal four places to the right.
3. MIL-STD-271, MIL-STD-2132 and ASME Sec V, all require that materials be subject to a procedure to evaporate off volatile solvents before analysis for Sulfur and Halogens. According to these specifications, only those residues higher than 0.005 g/100ml shall be analysed for Sulfur and Halogens. Lower residues shall be reported.
4. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.

FORMAT: MX 101.137 MC-09 Rev 25

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