

**Inspection Certificate**

Abnahmeprüfungszeugnis DIN EN 10204.3.1

Certificat De reception

Certificado di collaudo

Keuringsrapport



|                            |                |                     |   |
|----------------------------|----------------|---------------------|---|
| <b>Batch Number</b>        | <b>2403037</b> | <b>Product Name</b> | Zygro ZL-19 Water Washable<br>Fluorescent Penetrant |
| <b>Date of Manufacture</b> | 20/03/2024     | <b>B.B.E.</b>       | 03/2029   |

**Specification: Specification:**

We hereby certify that when tested at the time of manufacture, the above material:

1. Meets the requirements of and has been tested for sulfur and halogens according to:

a) ASME Boiler and Pressure Vessel Code, 2023 Edition, Section V, Non-destructive Examination.

b) ASTM E-165/E-165M-18, Paragraph 7.1.

c) MIL-STD-2132E, March 29, 2016, Paragraph 6.1.3.

d) EN ISO 3452-2

2. Meets the requirements of AMS 2644H and ASTM E 1417/E 1417M-21 Paragraph 5.1&amp; 6.5.1.

Penetrant brightness tested according to ASTM E 1135.

3. We further certify that the 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 2644H Penetrant Test Results**

Type 1 Level 1 Penetrant

When sampled and tested according to paragraph 4.3.2 section 4.2.2.1 of AMS 2644H the following results were obtained:

| Test                    | Section   | Limit | Result                       |
|-------------------------|-----------|-------|------------------------------|
| Flashpoint (SMT 14)     | 3.3.3     |       | 104.0 °C                     |
| Viscosity               | 3.3.4     |       | 5.67mm <sup>2</sup> /s (cSt) |
| Fluorescent Brightness  | 3.3.8.3.2 |       | 82.24 %                      |
| Water Tolerance (SMT 2) | 3.3.8.5   |       | 8.96 %                       |
| Penetrant Removal       | 3.3.8.6   |       | Passed                       |
| Water Content (SMT 18)  | 3.3.8.7   |       | 0.08%                        |

**Specification: Ion Testing Results**

Test results obtained were as follows:

| Test            | Section | Limit | Result |
|-----------------|---------|-------|--------|
| Halogen Content |         |       | 4 ppm  |
| Sulphur Content |         |       | 8 ppm  |

--- EOR ---

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**Prepared by**

A handwritten signature in black ink, appearing to be 'D. Smith'.

**Approved by**

A handwritten signature in black ink, appearing to be 'J. H. Smith'.

### 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 23

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