## Inspection Certificate

Abnahmeprüfungszeugnis DIN EN 10204.3.1
Certificat De reception
Certificado di collaudo
Keuringsrapport

| | | | |
|---|---|---|---|
| **Batch Number** | **2611051** | **Product Name** | Zyglo ZL-19 Water Washable Fluorescent Penetrant |
| **Date of Manufacture** | 24/11/2026 | **B.B.E.** | 11/2031 |

### 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, 2025 Edition, Section V, Non-destructive Examination.

b) ASTM E-165/E-165M-23, 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 2644J and ASTM E 1417/E 1417M-21EDT1 Paragraph 5.1& 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: Ion Testing Results

Test results obtained were as follows:

| Test | Section | Limit | Result |
|---|---|---|---|
| Halogen Content (F + Cl) | | | 0.0107% |
| Sulphur Content (S) | | | 0.0049% |

### Specification: AMS 2644J 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 2644J the following results were obtained:

| Test | Section | Limit | Result |
|---|---|---|---|
| Flashpoint (SMT 14) | 3.3.3 | | 103.5°C |
| Viscosity | 3.3.4 | | 5.70 mm2/s (cSt) |
| Water Tolerance (SMT 2) | 3.3.8.5 | | 6.07% |
| Fluorescent Brightness | 3.3.8.3.3 | Complies with standard | 80% |
| Penetrant Removability | 3.3.8.7 | Complies with standard | Passed |
| Water Content | 3.3.8.8 | Complies with standard | 0.06% |

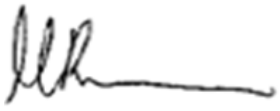
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**Prepared by** **Approved by**





**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.

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