



Inspection Certificate

SUBJECT: ZL-425 Fluorescent Penetrant

BATCH No: 2105269

MANUFACTURE DATE: 04/05/2021

B.B.E.: MAY 2026

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

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, 2019 Edition, Section V, Non-destructive Examination.
 - b) ASTM E-165/E-165M-18, Paragraph 7.1.
 - c) MIL-STD-2132D, 11 February 2003, Paragraph 7.1, 7.1.2, 7.1.3 and Appendix C, Paragraph 40.
 - d) NAVSEA T9074-AS-GIB-010/271, September 11, 2014, Paragraph 5.3.1 & 5.6.2.

Test results obtained were as follows:

Ion	Batch Result
Sulfur:	0.0002 wt % of residue.
Chlorine + Fluorine:	0.0002 wt % of residue.

2. It is hereby certified that the above listed inspection material and batch number meets the requirements of AMS 2644H and is approved by the U.S. Air Force and listed on the QPL-AMS-2644.

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

4.2.2.1	Penetrant Tests	Section	Batch Result
	Flashpoint (PMCC)	3.3.3	>93°C
	Viscosity	3.3.4	13.07 mm ² /s (cSt) @ 38°C
	Fluorescent Brightness	3.3.8.3.2	73.68% of Standard (AMS 2644 FP-4PE)
	Water tolerance Method A, B, C & D	3.3.8.5	N/A
	Penetrant Removability	3.3.8.6	Conforms
	Water Content	3.3.8.7	56.55 %

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.
4. It is further certified that this material meets the requirements of ASTM E1417, Paragraph 5.1

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 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. 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. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.