Certification

Product Name	**ZL-19**	Batch Number	**26L041**
Date	**11/11/2026**	Best By Date	**11/2031**
Classification	**Type 1 Method A, C Level 1 Penetrant**	Purchase Order	

It is hereby certified that when tested at the time of manufacture, the above listed material and batch number meets the requirements of and has been tested for Sulfur and Halogens according to:

- ASME Boiler and Pressure Vessel Code, Section V 2007- 2025 Edition, Nondestructive Article 6 paragraphT-641 and Article 24 as applicable.
- ASTM 165/E-165M-23 Paragraph 7.1.
- NAVSEA T9074-AS-GIB-010/271 (September 11, 2014) Paragraph 5.3.1 and 5.6.2
- MIL-STD-2132E, March 29, 2016, Paragraphs 7.1, 7.1.2 and 7.1.3, Appendix C, Paragraph 40.

The following test results were obtained:

Sulfur <10 ppm <0.0010 wt % . CL+F 23.63 ppm 0.0024 wt %

Specification **ASTM E1417, Paragraph 5.1**

IMeets requirements.

Specification **AMS 2644J**

When tested according to paragraph 4.3.2, Sampling Plan A, the following test results were obtained:

- 4.2.2.1 Penetrant Tests

Test	**Requirements**	**Result**	
Flash Point	3.3.3	217	º F
Viscosity (5.87 cs. Nominal)	3.3.4	5.69	cst
Penetrant Brightness (FP-4PE Standard)	3.3.8.3.3	79.19	%
Water Tolerance	3.3.8.5	20.0	%
Penetrant Removability	3.3.8.7	PASS	
Water Content	3.3.8.8	0.05	%

It is further certified that this material does not contain mercury as a basic element and that no mercury bearing equipment has been used in its manufacture.

Approved by:



Quality Control Manager

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 to be 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.

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