

ZL-27A

Date: 06/09/2025

Purchase Order:

Batch #: 25F014

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, 2010, 2013, 2015, 2017, 2019, 2021 and 2023 Edition, Nondestructive Examination, including 2005, 2006, 2008, 2009b, and 2011a Addenda, Article 6 Paragraph T-641 and Article 24 as applicable..
- ASME Boiler and Pressure Vessel Code, 1995, 1998 and 2001 Edition, Section V Nondestructive Examination, including 1999, 2000, 2002 and 2003 Addenda, Article 6 Paragraph T-640 and Article 24 as applicable.
- ASME Boiler and Pressure Vessel Code, 1986, 1989 and 1992 Edition, Section V , Nondestructive Examination, Article 6 including 1992 Addenda, Paragraph T-625, 1993 Addenda Paragraph T-640 and Article 24 as applicable.
- ASTM E-165/E-165M-12, ASTM E-165/E-165M-18, ASTM E-165/E-165M-18, ASTM E-165/E-165M-23 Paragraph 7.1.
- MIL-STD-271F(SH) June 27, 1986, Paragraphs 5.3 and 5.3.1, including Notice 1 Paragraph 5.6.1 June 21, 1993.
- NAVSEA T9074-AS-GIB-010/271 (April 30, 1997 including Notice 1, 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., % of residue. CL+F 51.21 ppm 0.0051 wt., % of residue
Cleaner residue (see note 3) NA g/100g NA g/100ml

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.

Notes:

1. Our batch number appears on the bottom of all aerosol cans and on the label of all bulk containers.
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.


Laurie Marx
Quality Control Manager

ZL-27A

Date: 06/09/2025

Purchase Order:

Batch #: 25F014

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

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

- 4.2.2.1 Penetrant Tests:

Flash Point (PMCC), 3.3.3	230	° F
Viscosity, 3.3.4 (10.23 cs. Nominal)	9.88	cs@100 ° F
Fluorescent Brightness, 3.3.8.3.2(FP-4PE Standard)	92.11	%
Water Tolerance, 3.3.8.5	NA	%
Removability, 3.3.8.7	PASS	%
Water Content, 3.3.8.8	0.08	%

- 4.2.2.2 Emulsifier Tests:

Flash Point (PMCC), 3.3.3	NA	° F
Viscosity, 3.3.4 (cs. Nominal)	NA	cs@100 ° F
Water Content (Method B and D Only), 3.3.9.6	NA	%

- 4.2.2.3 Developer Tests:

Developer Fluorescence, 3.3.10.2	NA
Developer Removability, 3.3.10.4	NA
Redispersibility, 3.3.10.5	NA

- 3.3.11.4 Remover Tests:

Penetrant Removal, 4.4.11.2	NA
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It is further certified that this material meets the requirements of ASTM E 1417, Paragraph 5.1.

Batch Numbers appear on labels of bulk containers and on bottoms of aerosol cans.



Laurie Marx
Quality Control Manager



Date: 06/09/2025

Purchase Order:

VENDOR'S REPORT - TEST RESULTS

Please forward in duplicate to:
REPORTS, MATERIALS CONTROL LABORATORY
PRATT & WHITNEY
(Plant to which material is shipped)

This is to certify that Paragraph Number(s) _____ apply to the shipment below: (insert at least one of the first 4, plus 5 if applicable).

- (Applicable to all raw material, to parts made from raw material furnished or purchased by vendor, or to assemblies of which some or all components are made from raw material furnished or purchased by vendor.) Material, parts, or components of assemblies have been inspected and accepted to the specifications involved, and results of tests required by Pratt & Whitney Aircraft are shown herein.
- (Applicable to parts or assembly components made from raw material furnished by Pratt & Whitney Aircraft and not chemically or metallurgically treated by vendor so as to change surface or internal condition significantly.) Parts or assemblies have been machined or formed from material furnished by Pratt & Whitney Aircraft, to make these parts or components of assemblies.
- (Applicable to parts or assembly components made from raw material furnished by Pratt & Whitney Aircraft and chemically or metallurgically treated by vendor so as to change surface or internal condition significantly.) Parts of components of assemblies have been made from raw material furnished by Pratt & Whitney Aircraft to make these parts or components of assemblies. Parts, components of assemblies have been inspected and accepted to the specifications involved, and results of tests required by Pratt & Whitney Aircraft are as show herein.
- (Applicable to repaired or reworked raw material, parts or assemblies.) The raw materials, parts or assemblies have been reworked or repaired in accordance with Pratt & Whitney Aircraft Instructions, and are the same material, parts or assemblies returned for such reworking or repair, except for replacement of assembly components, in which case paragraphs 1 and 5 are also applicable.
- (Applicable to all assemblies, and to parts when specifically authorized by purchaser.) Results of all chemical and physical tests not shown below, as well as all other evidence which shows acceptability of raw materials and assembly components, are on file and available for inspection at any reasonable time.


PART OR ASS'Y NO. (Size if no Part No.) PMC 4353AP	CHG. LTR.	SUF. NO. 2	SPECIFICATIONS, AS ORDERED PWA 300 Rev. BV
QUANTITY	DATE SHIPPED	LOCATION OF PWA PLANT TO SHIPPED TO	PACK SLIP NO. P.O. NO.
HEAT, LOT, CODE OR BATCH NO. Batch No. 25F014	RAW MATERIAL VENDOR	TYPE-COMPOUND OR CASTING ZL-27A	PWA HEAT CODES (if required)

If materials, parts or assemblies do not entirely conform to specification requirements, the deviation and authority for furnishing such materials are indicated below:

RESULTS OF TESTS (Use reverse side if necessary)

PHYSICAL PROPERTIES	ACCEPTED VALUE	PMC LIMITS (MINIMUM)	PMC LIMITS (MAXIMUM)
Flash Point	230	200° F	--
Viscosity	9.88	8.69	11.76
Water Content	NA	--	--
Fluorescent Brightness	92.11	90%	
Separation of Constituents - Homogenous	PASS	--	None
CHEMICAL PROPERTIES	ACCEPTED VALUE	PMC LIMITS (MINIMUM)	PMC LIMITS (MAXIMUM)
Fluoride Content	38	--	≤ 50 ppm
Chloride Content	14	--	≤ 400 ppm
Sulfur Content	<0.0010	--	≤ 0.1000%
Sodium Content	0.0009	--	≤ 0.0100%

Magnaflux certifies that ZL-27A meets the requirements of PMC 4353AP _ 2

VENDOR NAME MAGNAFLUX	BY (Authorizing Agent) Laurie Marx, Quality Control Manager 
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