

14AM Prepared Magnaglo Bath

Date: 04/19/2024

Purchase Order:

Batch #: 24D03C

It is hereby certified that the above listed magnetic particle inspection material and batch number meets the requirements of the following specifications:

- ASME Boiler and Pressure Vessel Code, Section V, 2004, 2007, 2010, 2013, 2015, 2017, 2019 and, 2021 Edition, Nondestructive Examination, including 2005, 2006, 2008, 2009b, and 2011a Addenda, Paragraph T-731 (B) and Article 25 as applicable.
- ASME Boiler and Pressure Vessel Code, Section V 1995, 1998 and 2001 Edition, Nondestructive Examination, including 1995 Winder Addenda, 1999, 2000, 2002 and 2003 Addenda, Paragraphs T-752, T-731(B) and Article 25 as applicable.
- ASTM E-709-21, Paragraphs 8.1.3, 8.5.4, 8.5.4.1 and 8.5.5.
- ASTM E-1444/E1444M-22a Para 5.5.1 and 5.5.2 and ASTM E-3024/E3024M-22a, Para 5.5.2 and 5.5.3
- NAVSEA 250-1500-1, Rev 18, August 2013, Para. 12.4.1.6., 12.4.2.3, 12.4.2.3.1, and 12.4.2.3.2.
- NAVSEA T9074-AS-GIB-010/271(April 30, 1997 including Notice 1, September 11, 2014 Rev. 1) Paragraphs 4.3.2.2, 4.3.2.3, 4.3.2.4 and 4.3.2.6.1
- MIL-STD-2132D, February 11, 2003, Paragraphs 6.1.3, 6.2.3, 6.2.4, 6.2.5, 6.2.6 and 6.2.7.
- The flash point of the material is over 200° F when tested by the Pensky-Marten's Closed Cup Method (ASTM D-93).
- The vehicle meets the requirements of A-A-59230, July 7, 1998 including Notice 1,2,3,4.
- The vehicle meets the requirements of AMS 2641D, Rev. 2020-10. The vehicle is classified as Type 1 according to paragraph 1.3.

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.

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



Mathew Plamoottil
Quality Assurance Manager



Laurie Marx
Quality Control Manager

14AM Prepared Magnaglo Bath

Date: 04/19/2024

Purchase Order:

Batch #: 24D03C

We hereby certify that the fluorescent magnetic particle inspection material Type 14AM Prepared Magnaglo , Batch No. 24D03C Manufactured in April, 2024 , furnished on the above order number meets the requirements of BS EN ISO 9934-2:2015 with the following results.

Organic Carrier Liquid for Magnaglo® 14AM

Individual Property	Section	Requirement	Result
Flash Point	7.7	Report	215
Fluorescence of Carrier Liquid	7.6	Comparison with reference (Quinine sulphate solution)	PASS

Magnaglo® 14AM

Individual Property	Section	Requirement	Result
Performance	7.1	Performance on reference block 1 compared to standard photo.	EQUAL
		Determination of lengths of reference block 2	EQUAL
Colour	7.2	Comparison with Standard Photo	equal
Particle Size	7.3	DI (10%)=Report	8.11
		Da (50%)=Report	12.58
		Du (90%)=Report	17.46
Fluorescent-Coefficient	7.5	Shall be within 10% of the type tested value of 2.39	PASS
Viscosity, Dynamic	7.9	<5 m Pa .s@20C	1.82
Storage Stability	7.10	Indications on Reference Blocks 1 and 2 compared to indications from original sample. No discernable changes allowed.	PASS
Storage Stability	7.11	No significant foaming	NA
Storage Stability	7.13	Expiration date on package	YES



Mathew Plamoottil
Quality Assurance Manager



Laurie Marx
Quality Control Manager

14AM

Date: 04/19/2024Batch Number: 24D03CManufacture Date: April, 2024

Purchase Order:

We hereby certify that the magnetic particle inspection material, Type 14AM, Batch No. 24D03C, manufactured in April, 2024, furnished on the above order number, meets the requirements of Aerospace Material Specification AMS-3046H, Magnetic Particles, Fluorescent, Wet Method, Oil Vehicle, Aerosol Packaged.

<u>TEST</u>	<u>PARAGRAPH</u>	<u>LIMIT</u>	<u>RESULT</u>
Magnetic Particles	3.1.1	AMS 3044	Conforms
Vehicle	3.1.2	AMS 2641	Conforms
Storage Life	3.2	Meet 3.3	Conforms
Contamination	3.3.1	No foreign Material Agglomeration, scum	Conforms
Concentration	3.3.2	0.15-0.30 cu.cm Magnetic particle/100cc cm	Conforms
Sensitivity	3.3.3.1	7 Hole indications shown. Indications sharp, background acceptable.	Conforms
Sprayability & Leakage	3.4.1	Even spray pattern. No clogging or leakage.	Conforms
Complete Expulsion	3.4.2	Complete expulsion before exhaustion of propellant. Expelled liquid contents: 5 fl. oz. minimum.	Conforms
Gas Seepage	3.4.3	Shall be not >3cm ³ (3ml) Conforms per 24 hrs.	Conforms
Total Dispensing	3.4.4	Shall be not be less than label mass	Conforms
Mixability	3.4.5	Pellet present, Completely mixable.	Conforms



Mathew Plamoottil
Quality Assurance Manager



Laurie Marx
Quality Control Manager