

Inspection Certificate

SUBJECT: Zyglo ZP-9F Solvent Based Developer Aerosol

BATCH No: 210109

MANUFACTURE DATE:07/01/2021

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

B.B.E.: JAN 2024

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) Anion analysis by ASTM D129 decomposition followed by Ion Chromatography method Annex A4.
 - c) ASTM E-165/E-165M-18, Paragraph 7.1.
 - d) MIL-STD-2132D, 11 February 2003, Paragraph 7.1, 7.1.2, 7.1.3 and Appendix C, Paragraph 40.

Test results obtained were as follows:

lon	Batch Result
Sulfur:	0.0010 wt % of residue.
Chlorine + Fluorine:	0.0024 wt % of residue.

2. Meets the requirements of Rolls Royce RRP 58003 (CSS 232), Propan-2-ol content = 10.8 %, SAFRAN Pr 5000 / In 5000B, AMS 2644H and ASTM E 1417/E 1417M-16 Paragraph 5.1& 6.5.1.

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

4.2.2.3	Developer Tests	Section	Batch Result
	Developer Fluorescence	3.3.10.2	Conforms
	Developer Removability	3.3.10.4	Conforms
	Redispersibility (Forms c, d & e only)	3.3.10.5	Conforms

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.

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. 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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VENDOR'S REPORT - TEST RESULTS

REPORTS, MATERIALS CONTROL LABORATORY PRATT & WHITNEY AIRCRAFT (Plant to which material is shipped)

This is to certify that paragraph number 1 + 5 apply to the shipment described below (Insert at least one of the first 4, plus 5 if applicable)

- 1. (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 materials furnished or purchased by vendor) Material, parts, or components of assemblies have been inspected & accepted to the specifications involved, & results of tests required by PWA are as shown herein.
- (Applicable to parts or assembly components made from raw material furnished by PWA 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 PWA to make these parts or components of assemblies.
- 3. (Applicable to parts or assembly components made from raw material furnished by PWA and chemically or metallurgically treated by vendor so as to change surface or internal condition significantly) Parts or components of assemblies have been made from raw material furnished by PWA to make these parts or components of assemblies. Parts, components of assemblies, or assemblies have been inspected and accepted to the specifications involved, and results of tests required by PWA are as shown herein.
- 4. (Applicable to repaired or reworked raw material, parts or assemblies) The raw material, parts or assemblies have been reworked or repaired in accordance with PWA 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 & 5 are also applicable.
- 5. (Applicable to all assemblies, and to parts when specificallyauthorised by purchaser) Results of all chemical and physical tests not shown below as well as all other evidence which shows acceptability of raw materials & assembly components, are on file and available for inspection at any reasonable time.

PART OR ASS'yNO (Size if no part no)		CHG.LTR	SUF.NO	SPECIFICATION AS ORDERED *		
PMC 4357				PWA 300 Rev.		
QUANTITY	DATE SHIF	PPED	LOCATION OF PWA PLANT SHIPPED TO		PACK SUB NO	PO NO
HEAT, LOT, CODE or BATCH NO RAW MATERIAL VEN 210109		NDOR	TYPE COMPOUND or CASTING ZP-9F Developer	PWA HEAT CODES		

^{*} If material, parts or assemblies do not entirely conform to specification requirements, the deviation and authority for furnishing such material are indicated below:

Results of TESTS

PHYSICAL PROPERTIES	TEST RESULTS	PMC LIMITS (MINIMUM)	PMC LIMITS (MAXIMUM)
Flashpoint	N/A	-	-
Kinematic Viscosity @ 38°C	N/A	-	-
Water Content	N/A	-	-
Fluorescent Brightness	N/A	-	-
Appearance	Pass	White &non	fluorescent

CHEMICAL PROPERTIES	TEST RESULTS	PMC LIMITS (MINIMUM)	PMC LIMITS (MAXIMUM)
Fluoride Content	1 ppm	-	≤ 50 ppm
Chloride Content	23 ppm	-	≤ 1000 ppm
Sulfur Content	0.0010 %	-	≤ 0.100 %
Sodium Content	0.0002 %	-	≤ 0.100 %

Magnaflux certifies that ZP-9F meets the requirements of PMC 4357.

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