

April 16, 2015

CERTIFICATION

We hereby certify that samples of the material identified below by batch number, have been analyzed in accordance with test methods that meet and/or exceed the detection limits for fluoride, chloride, and sulfur per ASM Boiler and Pressure Vessel Code, Section V, Article 6, paragraph T-641, 1998 - 2013 Editions and addenda, with the following results:

	FLUORIDE ASTM E165 <u>ANNEX A4</u>	CHLORIDE ASTM E165 <u>ANNEX A4</u>	SULFUR ASTM E165 <u>ANNEX A4</u>
DUBL-CHEK RC-65	<0.0001%BW	<0.0006%BW	<0.0001%BW
BATCH NO. 59-D89			

We further certify that this material meets or exceeds the requirements of AMS 2644, MIL-I-25135, Revision E and ASTM E1417.

Copies of the certification and laboratory reports are on file in our office for your inspection.

SHERWIN INCORPORATED
George Murphy
QC Chemist

Revision: August 2001

CERTIFICATE OF CONFORMANCE

Date: April 16, 2015

Product: RC-65

Batch No.: 59-D89

Type: I Methods: B, C and D Sensitivity Level: 3

It is hereby certified that this material has been manufactured in accordance with, and conforms to, AMS 2644. Results of the required quality conformance tests, as stipulated by paragraph 4.3.2, are listed below.

<u>Test Method Paragraph</u>	<u>Test Description</u>	<u>Results</u>
3.3.3	Flash point i.a.w. ASTM D93	>230°F
3.3.4	Viscosity i.a.w. ASTM D445 at 100 ± 1°F	7.89 cStS
3.3.8.3.2	Fluorescent brightness i.a.w. ASTM E1135 (Type I only)	103.0%
3.3.8.6	Removability	Conforms
---	Fluoride content i.a.w. ASTM E165, Annex 4	<0.0001%BW
---	Chloride content i.a.w. ASTM E165, Annex 4	<0.0006%BW
---	Sulfur content i.a.w. ASTM E165, Annex 4	<0.0001%BW

It is further certified that this material is listed or approved for listing on QPL-AMS-2644. It also meets the requirements of MIL-I-25135E, ASTM E1417, and MIL-STD-6866.

SHERWIN INCORPORATED


George Murphy
QC Chemist

Revision: January 2000

SUPPLIER'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) . . . **1&5** . . . apply to the shipment described 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 Supplier, or to assemblies of which some or all components are made from raw materials furnished or purchased by Supplier.) Material, parts, or components of assemblies have been inspected and accepted to the specifications involved, and results of tests required Pratt & Whitney are as shown herein.
- (Applicable to parts or assembly components made from raw material furnished by Pratt & Whitney and not chemically or metallurgically treated by Supplier so as to change surface or internal condition significantly.) Parts or assemblies have been machined or formed from material furnished by Pratt & Whitney, to make these parts or components of assemblies.
- (Applicable to parts or assembly components made from raw material furnished by Pratt & Whitney and chemically or metallurgically treated by Supplier so as to change surface or internal condition significantly.) Parts or components of assemblies have been made from raw material furnished by Pratt & Whitney 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 Pratt & Whitney are as shown herein.
- (Applicable to repaired or reworked raw material, parts, or assemblies.) The raw material, parts or assemblies have been reworked or repaired in accordance with Pratt & Whitney 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 of any reasonable time.

PART OR ASS'Y NO. (Size, if no part No.) PMC-4353-3 REV. AF		CHG. LTR	SUF. NO.	SPECIFICATIONS, AS ORDERED* PWA 300	
QUANTITY	DATE SHIPPED		LOCATION OF PWA. PLANT SHIPPED TO		PACK. SLIP NO. P.O. NO.
HEAT, LOT, CODE OR BATCH RC-65 59-D89		RAW MATERIAL SUPPLIER		TYPE-COMPOUND OR CASTING	PWA HEAT CODES (If required)

*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 (Use reverse side if necessary)

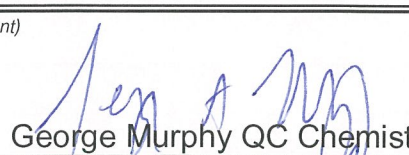
PHYSICAL PROPERTIES

	Actual Testing Results	PMC Limits	
		Minimum	Maximum
Flash point -	>230°F	200°F	---
Viscosity -	7.89 cSts	6.12 cSts	8.18 cSts
Fluorescent brightness -	103.0%	90%	
Separation of constituents -	Homogeneous		None

CHEMICAL PROPERTIES

Fluoride content -	<0.0001%	---	≤0.0050%
Chloride content -	<0.0006%	---	≤0.0400%
Sulfur content -	<0.0001%	---	≤0.1000%
Sodium content -	<0.0001%	---	≤0.0100%

We hereby certify that this product meets the requirements of PMC-4353-3.

SUPPLIER NAME Sherwin Incorporated	BY (Authorized Agent)  George Murphy QC Chemist
SUPPLIER ADDRESS 5530 Borwick Ave. South Gate, Ca. 90280	