

February 4, 2019

**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 ASME Boiler and Pressure Vessel Code, Section V, Article 6, paragraph T-641, 1998 - 2017 Editions and addenda, with the following results:

|                          | <b>FLUORIDE</b><br><b>ASTM E165</b><br><b><u>ANNEX A4</u></b> | <b>CHLORIDE</b><br><b>ASTM E165</b><br><b><u>ANNEX A4</u></b> | <b>SULFUR</b><br><b>ASTM E165</b><br><b><u>ANNEX A4</u></b> |
|--------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|
| <b>DUBL-CHEK DP-54</b>   | <b>&lt;0.0001% BW</b>                                         | <b>&lt;0.0001% BW</b>                                         | <b>&lt;0.0001% BW</b>                                       |
| <b>BATCH NO. 91-BS10</b> |                                                               |                                                               |                                                             |

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**  
Q.C. Laboratory

## CERTIFICATE OF CONFORMANCE

Date: February 4, 2019

Product: DP-54

Batch No.: 91-BS10

Type: II      Methods: A and C

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

| <u>Test Method<br/>Paragraph</u> | <u>Test Description</u>                    | <u>Results</u> |
|----------------------------------|--------------------------------------------|----------------|
| 3.3.3                            | Flash point i.a.w. ASTM D93                | 215°F          |
| 3.3.4                            | Viscosity i.a.w. ASTM D445 at 100 ± 1°F    | 10.51 cSts     |
| 3.3.8.5                          | Water tolerance (Method A only)            | 18.9% csts     |
| 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 | <0.0001% 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

Q.C. Laboratory

Revision: January 2000