

April 27, 2021

**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 - 2019 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. 117-DS10</b> |                                                               |                                                               |                                                             |

We further certify that this material meets or exceeds the requirements of AMS2644H, 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: April 27, 2021

Product: DP-54

Batch No.: 117-DS10

Type: II      Methods: A and C

It is hereby certified that this material has been tested in accordance with AMS 2644H. 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    | 10.61 cSts     |
| 3.3.8.5                      | Water tolerance                            | Conforms       |
| 3.3.8.6                      | Removability                               | Conforms       |
| 3.3.8.7                      | Water Content                              | 0.19%          |
| ---                          | 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. .

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