

March 29, 2017

**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, 1998-2015 Editions and Addenda, with the following results:

|                  |                | <b>FLUORIDE</b>       | <b>CHLORIDE</b>       | <b>SULFUR</b>         |
|------------------|----------------|-----------------------|-----------------------|-----------------------|
|                  |                | <b>ASTM E165</b>      | <b>ASTM E165</b>      | <b>ASTM E165</b>      |
|                  |                | <b><u>ANNEX 4</u></b> | <b><u>ANNEX 4</u></b> | <b><u>ANNEX 4</u></b> |
| <b>DUBL-CHEK</b> | <b>GW1-MPF</b> | <b>&lt;0.0001%BW</b>  | <b>&lt;0.0001%BW</b>  | <b>&lt;0.0001%BW</b>  |
| <b>BATCH NO.</b> | <b>716-C63</b> |                       |                       |                       |

We further certify that this material meets or exceeds the requirements of ASTM E1444, MIL-I-6868E, DOD-F87935, ASTM E709, AMS 2641, and AMS 3045.

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

**SHERWIN INCORPORATED**

**Emad Assar**  
**R&D Chemist**

Revision: August 2000

**CERTIFICATE OF CONFORMANCE**

Date: March 29, 2017

Product: GW1-MPF  
Batch No.: 720-C47

It is hereby certified that this material has been manufactured in accordance with, and conforms to ASTM E1444, MIL-STD-1949, and AMS 3044. Results of the required quality conformance tests are listed below.

| <u>Test Description</u>                   | <u>Results</u>           |
|-------------------------------------------|--------------------------|
| Contamination, i.a.w AMS 3045             | None                     |
| Concentration, i.a.w AMS 3045             | 0.24 ml                  |
| Sensitivity, i.a.w AMS 3045               | Conforms                 |
| <b>Particles:</b>                         |                          |
| Particle color                            | Fluorescent yellow-green |
| Particle size, i.a.w AMS 3044, #325 sieve | >98% passing             |
| <b>Suspension Fluid:</b>                  |                          |
| Flash Point, i.a.w ASTM D-93              | >200°F                   |

It is further certified that this material meets the requirements of ASME B&PV Code Section V and ASTM E709.

SHERWIN INCORPORATED

Emad Assar  
R&D Chemist

Revision: January 2000