

**CONUS: CARC [CHEMICAL AGENT RESISTANT COATING] PROCESS CERTIFICATION**  
Includes Non-CARC Heat Resistant Coating. Form to be completed by supplier performing paint application; check all that apply.

Part Number: \_\_\_\_\_ Revision: \_\_\_\_\_ Quantity: \_\_\_\_\_

Applicable Paint Dwg/s or Note/s: \_\_\_\_\_

Supplier Name/ Job Customer: \_\_\_\_\_

Date: \_\_\_\_\_ Special Notes: \_\_\_\_\_

**CLEANING**  
 TT-C-490 Method \_\_\_\_\_  LS1138059, Section \_\_\_\_\_  
 MIL-DTL-5541  Other: \_\_\_\_\_

Tested for Cleanliness--->  YES, Method \_\_\_\_\_  NO

**PRETREATMENT**  
 MIL-PRF-32550, Type \_\_\_\_\_ Class \_\_\_\_\_  MIL-DTL-5541 Type II Class: \_\_\_\_\_  
 TT-C-490 Type \_\_\_\_\_  ASTM A967 or SAE AMS 2700  
 MIL-A-8625 Type \_\_\_\_\_  LS1138059, Section \_\_\_\_\_  
 Other: \_\_\_\_\_

Pretreatment Validated  
Hexavalent Chromium [HC] Free--->  YES  NO [HC IS NOT PERMITTED]

**PRIMER**  
 MIL-DTL-53022, Type IV  Other [No HC Permitted] \_\_\_\_\_  
 MIL-DTL-53030  
 MIL-DTL-53084  
 MIL-PRF-32348  
 MIL-PRF-85582  
Manufacturer: \_\_\_\_\_  
Product: \_\_\_\_\_  
Batch: \_\_\_\_\_  
 On the QPL: (When directed by the Military spec)

Compliant to LS1138059  
Section 3.1.3--->  YES  NO [MUST COMPLY TO LS1138059]

**TOPCOATING**  
 MIL-C-46168  MIL-PRF-32348  
 MIL-DTL-53039 Type IV  Other [No HC Permitted] \_\_\_\_\_  
 MIL-DTL-64159  
 MIL-PRF-14105 (Heat Resistant\*)  
 MIL-PRF-22750 (Interior)  
Manufacturer: \_\_\_\_\_  
Product: \_\_\_\_\_  
Batch: \_\_\_\_\_

Compliant to LS1138059  
Respective Section/s--->  YES  NO [MUST COMPLY TO LS1138059]  On the QPL: (When directed by the Military spec)

**COLOR**  
Per LS1138059 Section 4.:  4.1 Green  4.2 Tan  4.3 White  4.4 Black  
 4.5 Seafoam Green  4.6 Red  4.7 Marking Black  Other: \_\_\_\_\_

**TESTING**  
PASS FAIL  
  Adhesion Test  
  Dry Film Thickness  
  Solvent Wipe  
Corrosion Resistance: \_\_\_\_\_ (Date of last test)  
(Specification tested per ) \_\_\_\_\_  
(Hrs/ cycles tested) \_\_\_\_\_  
(PASS/ FAIL) \_\_\_\_\_

The surface treatment processes comply with LS1138059 and MIL specifications:  Yes /  No  
All scope performed I.A.W. applicable notes in technical data package per part #:  Yes /  No  
All verification tests successfully completed per specifications:  Yes /  No

Supplier: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

**COPIES OF ORIGINAL MANUFACTURER(S) PAINT AND PRIMER CERTIFICATIONS AND RELEVANT TEST DATA MUST BE AVAILABLE UPON REQUEST, INCLUDES SALT SPRAY**

## **CHEMICAL AGENT RESISTANT COATING PROCESS REQUIREMENTS**

**The supplier shall be able to demonstrate compliance to the following requirements:**

1. Substrate cleaning, pretreatment, and primer application shall be in accordance with the technical data package: contractors shall have objective evidence that application processes used are of sufficient performance I.A.W. TT-C-490 and MIL-DTL-53072, including recurring testing to verify repeatability.
2. Where MIL-PRF-32550 pretreatments [TT-C-490 Type VIII] are required in TDP [Technical Data Package] corrosion testing of process shall be cyclic per GMW 14872 for 80/ 100 cycles for initial performance verification [TT-C-490, 4.7.7]. Recurring tests 30 cycles.
3. Products shall be procured from the appropriate Qualified Products List (where applicable).
4. Reducers used in coatings shall meet the applicable military standard requirements.
5. CARC application process shall be in accordance with MIL-DTL-53072 and LS1138059 respective sections.
6. Testing shall be performed I.A.W. TT-C-490 and MIL-DTL-53072. Records shall be maintained for all testing.
  - 6.1 Solvent Wipe
  - 6.2 Dry Film Thickness [DFT]
  - 6.3 Adhesion
  - 6.4 Corrosion ResistanceTesting to be performed by qualified laboratory [ISO 9000/IEC 17025 or NADCAP]. Upon special request a supplier may request to have provision made for testing in accordance with specifications within their own laboratory/ facilities. In such case this request to be submitted formally prior to accepting PO for GDLS consideration/ approval. Refer to specifications for quantity of test specimens per substrate per test. Where the use of production parts is not practical, sample panels of same/similar material may be used, provided that they accurately reflect the production painting process and are compliant to TT-C-490 and MIL-DTL-53072. Contact GDLS prior to accepting PO for any panel material inquiries in case there is need for alternate consideration/s.
7. The DFT, adhesion, solvent wipe, and salt spray tests must be performed to verify performance of applicators CARC process ahead of coating GDLS product. Re-qualification is required when the process has been changed or when directed by GDLS. Recurring testing required to monitor process quality as indicated in specifications TT-C-490 and MIL-DTL-53072.
8. \* [Heat Resistant Coating: Non-CARC, No pretreatment or primer to be used](#). Clean per LS1138059 Section 3.1.1.1 to minimum SSPC-SP10 near white. MIL-PRF-14105 requires process verification prior to painting GDLS product for: Adhesion [post bake ASTM D3359 Method B, 4B or better], and DFT 2.0+- 0.5 mil. Excessive DFT will degrade coating. Cleanliness of substrate and properly controlled DFT are critical controls as are the baking cycle controls in LS1138059 Section 3.1.4.3. Prepare test panels of same/ similar material for process verification. Constant DFT monitoring required. Recurring adhesion testing required per batch.

**COPIES OF ORIGINAL MANUFACTURER(S) PAINT AND PRIMER CERTIFICATIONS AND RELEVANT TEST DATA MUST BE AVAILABLE UPON REQUEST, INCLUDES SALT SPRAY**