



This certificate is granted and awarded by the authority of the Nadcap Management Council to:

CTL Aerospace

*5616 Spellmire Dr
Cincinnati, OH 45246
United States*

This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in www.eAuditNet.com on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:

Composites

Certificate Number: 6001170280
Expiration Date: 30 April 2018

Joseph G. Pinto
Executive Vice President and Chief Operating Officer



SCOPE OF ACCREDITATION

Composites

CTL Aerospace
5616 Spellmire Dr
Cincinnati, OH 45246

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: www.eAuditNet.com - Online QML (Qualified Manufacturer Listing).

In recognition of the successful completion of the PRI evaluation process, accreditation is granted to this facility to perform the following:

AC7118 Rev D - Nadcap Audit Criteria for Composites (to be used on audits before 11 June 2017)

CMP – Compression Molding
CP – Core Processing
LRP – Liquid Resin Processing
MB – Metal Bond
PAR – Prepreg/Adhesive Bonding/Resin Film Infusion

AC7122/1 Rev B - Nadcap Audit Criteria for Non Metallic Materials Testing – Mechanical Testing

1.1.1 Tensile Ambient Temperature
1.1.2 Tensile Non–ambient Temperature
1.1.3 Tensile Strain Measurement
1.10.1 T–Peel
1.12.1 Climbing Drum Peel
1.13.1 Floating Roller Peel
1.2.1 Compression Ambient Temperature
1.2.2 Compression Non–ambient Temperature
1.2.3 Compression Strain Measurement
1.21.1 Flatwise tension, Sandwich
1.22.1 Sandwich Flexure
1.3.1 Shear Ambient Temperature by SBS
1.3.2 Shear Ambient Temperature ± 45 Tension
1.3.5 Shear Non–ambient (any method)
1.3.6 Shear Strain Measurement

- 1.4.1 Flexural Ambient Temp
- 1.4.2 Flexural Non-ambient
- 1.4.3 Flexural Strain measurement
- 1.9.1 Single Lap Shear – Ambient Temperature
- 1.9.2 Single Lap Shear – Non-ambient Temperature

AC7122/2 Rev A - Nadcap Audit Criteria for Non Metallic Materials Testing – Physical Testing

- 2.1.2 Hardness Testing: Barcol
- 2.1.3 Hardness Testing: Durometer
- 2.2.1 Density/ Specific Gravity
- 2.3.2 Resin/Fiber /Void Content by: Burn off
- 2.3.3 Resin/Fiber /Void Content by: Solvent wash
- 2.5.1 Volatile Content
- 2.6.1 Gel Time
- 2.7.1 Flow
- 2.8.1 Fiber Areal Weight
- 2.8.2 Prepreg Areal/Adhesive Film Weight

AC7122-P Rev B - Nadcap Audit Criteria for Non Metallic Materials Testing – Laboratories P - Part Manufacturers Captive Laboratories Part manufacturer's captive testing laboratories (Only in conjunction with AC7118)

- Class A: Composites
- Class B: Adhesive/Adhesive Primer

Material Class - checking all that apply

- Class A: Composites
- Class B: Adhesive/Adhesive Primer
- Class D: Core

Please use for the grading of your audit Rev A - Please select all that apply (to be used on audits before 11 June 2017)

- 14b – NC Ply Cutting (Applies to CP, LRP, MB or PAR)
- 18a or b – Resin Preparation and Mixing (Applies LRP Only)
- 19 a or b – Liquid Resin Infusion (Applies LRP Only)
- 21a – Autoclave (Applies to LRP, MB or PAR)
- 21b or c or d – Oven (Applies to CMP, LRP, MB or PAR)
- 21e or f – Press (Applies to LRP, MB or PAR)
- 22b – NC Machining/Trimming/Drilling (Applies to CMP, LRP, MB or PAR)
- 23 – Miscellaneous Bonding (Applies to CMP, LRP, MB or PAR)
- Process Capability – CMP: Compression Molding (Must be checked in section 3B if checked in section 3A)

Process Capability – CP: Core Processing (Must be checked in section 3B if checked in section 3A)

Process Capability – LRP: Liquid Resin Processing (Must be checked in section 3B if checked in section 3A)

Process Capability – MB: Metal Bonding (Must be checked in section 3B if checked in section 3A)

Process Capability – PAR: Prepreg/Adhesive Bonding/Resin Film Infusion (Must be checked in section 3B if checked in section 3A)