



Testing laboratory Approval for Independent Laboratory

MEMO Nº: AM-SUB-003-22 Rev.0

Approval Date: 17 November 2022

SUBJECT: INDEPENDENT TESTING LABORATORY APPROVAL

SCOPE: See Annex 1.

SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH
No. 14&15, Sadarmanga Industrial Area, Whitefield Road
Bangalore-5060048, Karnataka State, India

In accordance with CASA1400 is hereby approved as:

INDEPENDENT TESTING LABORATORY
According to CASA-1400-55-FT

LIMITATIONS:

The approval is limited to the tests describe in Annex I.

ACTIONS TO BE PERFORMED BY SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH:

The Qualification Dossier has to be maintained by supplier as process owner.

REFERENCE DOCUMENTATION:

2022-MAPAT-406	Airbus DS Doc.	Initial Approval Audit Report
Laboratories approval. Shriram lab	Shriram Doc.	CASA-1400-55-FT Compliance Matrix
Accreditations	See Annex 2	See Annex 2

REMARKS:

Airbus Defence and Space does not consider as valid any deviation not expressly stated in this document.

	Name	Signature
Certifier	Beatriz Martínez Corbella Materials and Processes Project Engineers (TEPMS) AIRBUS DEFENCE AND SPACE	
	Daniel Sánchez Vivat Materials and Processes Project Engineers (TEPMS) AIRBUS DEFENCE AND SPACE	
Approved	Norberto Roiz Lafuente HO Materials and Processes Project Engineers (TEPMS) AIRBUS DEFENCE AND SPACE	

The information provided in this document is property of Airbus Defence and Space, S.A.U and may not be copied or communicated to a third party for any purpose other than written authority of Airbus Defence and Space, S.A.U.



ANNEX 1. **Approved Scope**

- **METALLIC MATERIALS AND COATINGS**

Test / Analysis	Method/ Test Procedure
Thickness	ASTM D7091 / AITM 6-6006
Dry adhesion test	ISO 2409
Wet adhesion test	ISO 2409 / ISO 2812-2
Gloss test	ISO2813 (*)
Colorimetry	AITM2-0027 / ASTM D2244
FTIR	AITM3-0003 (Proc. B) / ASTM D3677
Corrosion resistance	ASTM B117 / ISO 9227
Scratch Resistance	ISO 1518
Sealing saturation test	ISO 2143 (*)
Appearance	I+D-P-416
Appearance	I+D-P-202
Visual Inspection	I+D-P-064
Drying time	ISO 9117-3 (*)
Electrical Resistance test	AITM 2-0031 / AITM 2-0039
Flexibility	ISO 1519 / AITM 1-0020

- **METALLICS. Mechanical Testing**

Test / Analysis	Method/ Test Procedure
Tensile test	ASTM B557 (*)

The information provided in this document is property of Airbus Defence and Space, S.A.U and may not be copied or communicated to a third party for any purpose other than written authority of Airbus Defence and Space, S.A.U.



- **COMPOSITES**

Test / Analysis	Method/ Test Procedure
Void content	ASTM D3171 Procedure G (*)
Void content	EN 2564 Method A (*)
Cured ply thickness	I+D-E-123 (3.3.) / I+D-P-243 (3.3.)

- **COMPOSITES, ADHESIVES and PLASTICS . Mechanical Testing**

Test / Analysis	Method/ Test Procedure
Drum peel test	ASTM D1781 / I+D-E-256 / I+D-E-289
In plane shear strength	ASTM D3846 (*)
Interlaminar shear strength (ILSS)	I+D-E-286 / ASTM D2344 (*)
Flatwise Tensile strength	AITM 1-0025 / EN2243-4 (*)
Single lap shear strength (SLSS)	AITM 1-0019 / ASTM D1002
Double lap shear strength (DLSS)	AITM 1-0019 / ASTM D3528

(*) Test Methods considered as Temporarily Approved. Evidence of NALB accreditation in 2023 is required for final approval.

The information provided in this document is property of Airbus Defence and Space, S.A.U and may not be copied or communicated to a third party for any purpose other than written authority of Airbus Defence and Space, S.A.U.



ANNEX 2.

Summary of Accreditations

- TC-5090 - NABL Accreditation

The information provided in this document is property of Airbus Defence and Space, S.A.U and may not be copied or communicated to a third party for any purpose other than written authority of Airbus Defence and Space, S.A.U.