

GMA-WERKSTOFFPRUEFUNG GMBH

WERFTSTR. 1

26954, NORDENHAM

DE

305214

TYPE of External Shop

**INDEPENDENT**

## **Attestation letter for Qualification on Test Methods**

Dear Madam, Dear Sir,

We herewith inform that the couples as detailed in the Appendix have been either registered or modified in the Official Airbus Qualified Test Methods List (QTML).

The latest valid status of all qualified couples is published by regular QTML reports :

- On Airbus homepage for Suppliers (<https://www.airbus.com/be-an-airbus-supplier.html>)- Only Independent Labs.
- On Airbus Supply Portal - All External Test Facilities.

A qualified couple is not linked to a specific product. It is the evidence that the External Test Facility is meeting the requirement of the M20691.2: Perform Couple Compliance and Maturity's Activities for Material Products Suppliers and/or M20691.3: Perform Couple Compliance and Maturity's Activities for Aerostructure Parts Suppliers.

- We ask you to inform AIRBUS about any modification which could affect the current qualification(s).

Airbus reserves the right to withdraw or suspend the qualification at any time for specific reason, e.g.

- Any major incident(s) detected on one or several Test processes
- Lack in quality, including the surveillance activities (PTP results, Nadcap accreditation, etc)
- Evidence Of non-compliance with the M20691.2 and/or M20691.3
- Loss of Airbus Supplier Approval
- Stop of the Business

Yours faithfully,  
The Test Method Central Team

Appendix: Matrix of qualified Couples <Test Methods/ Shop>

\* Next PTP participation year is given for information - It is the External Shop's responsibility to check every year on the PTP Website which kits are proposed.

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## EX-SITU

### Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for

GMA-WERKSTOFFPRUEFUNG GMBH - (305214)

Test Standard(s)	Test label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparison test Participation.*	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
AITM1-0016	THE DETERMINATION OF THE EFFECT OF LIQUID CLEANING AGENTS UPON THE PEEL STRENGTH OF HEAT CURED FILM ADHESIVE /BONDING PRIMER SYSTEMS	AGING	NA	QUALIFIED					10/05/2023
AITM1-0019	DETERMINATION OF TENSILE LAP SHEAR STRENGTH OF COMPOSITE JOINTS	SHEAR	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY 20770-ICY-CS NOTE - 1 WAY WITH QVA-Z10-46-09 WITH NO CONDITIONS	2025			10/01/2025
AITM1-0033	SEALANTS: DETERMINATION OF THE CURING RATE OF SEALING MATERIALS	HARDNESS	LOW	QUALIFIED					
AITM1-0047	GLARE MATERIAL. INTERLAMINAR SHEAR TEST	FLEXURE	LOW	QUALIFIED					11/05/2023
AITM1-0049	GLARE MATERIAL. TENSILE TEST	TENSILE	LOW	QUALIFIED					11/05/2023
AITM3-0007	DROP (REACTION ) TEST ON ALUMINIUM AND ALUMINIUM ALLOYS	COMPOSITION	LOW	QUALIFIED					04/12/2023

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AITM3-0013	TESTING OF SUSCEPTIBILITY TO EXFOLIATION CORROSION IN 2XXX AND 7XXX SERIES WROUGHT ALUMINIUM ALLOY PRODUCTS	CORROSION	LOW	QUALIFIED					
AITM3-0029	DETERMINATION OF IRON (III) AS REACTIVE COMPOUND IN ACIDIC SURFACE TREATMENT BATHS	BATH ANALYSIS	LOW	QUALIFIED					
AITM3-0030	TITRATION OF SULPHURIC AND TARTARIC ACID IN ANODIZING ELECTROLYTES	CONTENT	LOW	QUALIFIED		2025			
AITM3-0032	ANALYSIS OF METALS IN GALVANIC BATHES BY ICP-SPECTROSCOPY	SPECTROSCOPY	LOW	QUALIFIED WITH LIMITATIONS	NCF V53D13013279 ACCEPTED	2025			
AITM3-0034	COMBINED DETERMINATION OF FREE HYDROXIDE AND ALUMINIUM IN ALKALINE SURFACE TREATMENT BATHS	BATH ANALYSIS	LOW	QUALIFIED					
AITM3-0035	DETERMINATION OF CHLORIDE CONTAMINATIONS IN SURFACE TREATMENT BATHS	BATH ANALYSIS	LOW	QUALIFIED		2025			

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AITM3-0036	DETERMINATION OF HYDROGEN IONS IN SURFACE TREATMENT BATHS	BATH ANALYSIS	LOW	QUALIFIED		2025			
AITM3-0037	DETERMINATION OF PHOSPHORIC AND SULPHURIC ACID IN ANODIZING ELECTROLYTES	BATH ANALYSIS	LOW	QUALIFIED					
AITM3-0038	DETERMINATION OF NON-VOLATILE-RESIDUE	CONTENT	LOW	QUALIFIED					
AITM4-0002	MICROSTRUCTURAL CHARACTERIZATION OF WELDED ALUMINIUM STRUCTURES	MICROSCOPY	LOW	QUALIFIED					
AITM5-0009	DETERMINATION OF RESISTANCE TO BOND LINE CORROSION	CORROSION	HIGH	QUALIFIED					29/04/2025
AITM7-0003	SEALANTS: DETERMINATION OF APPLICATION TIME OF SEALING MATERIALS	VISCOSITY	LOW	QUALIFIED					

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ASTMB117	STANDARD PRACTICE FOR OPERATING SALT SPRAY (FOG) APPARATUS	CORROSION	LOW	QUALIFIED		2026			04/12/2023
ASTMD1125	STANDARD TEST METHODS FOR ELECTRICAL CONDUCTIVITY AND RESISTIVITY OF WATER	CONDUCTIVITY	LOW	QUALIFIED WITH LIMITATIONS	LIMITED TO METHOD A				
ASTMD1293	STANDARD TEST METHODS FOR PH OF WATER	PH	LOW	QUALIFIED WITH LIMITATIONS	LIMITED TO METHOD B				
ASTME112	STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE	GRAIN SIZE	LOW	QUALIFIED		2025			
ASTME1409	STANDARD TEST METHOD FOR DETERMINATION OF OXYGEN AND NITROGEN IN TITANIUM AND TITANIUM ALLOYS BY THE INERT GAS FUSION TECHNIQUE	SPECTROSCOPY	LOW	QUALIFIED		2024			29/03/2024
ASTME1447	STANDARD TEST METHOD FOR DETERMINATION OF HYDROGEN IN TITANIUM AND TITANIUM ALLOYS BY THE INERT GAS FUSION THERMAL CONDUCTIVITY/ INFRARED DETECTION METHOD	HYDROGEN CONTENT	LOW	QUALIFIED		2024			29/03/2024

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ASTME1941	DETERMINATION OF CARBON IN REFRACTORY AND REACTIVE METALS AND THEIR ALLOYS BY COMBUSTION ANALYSIS	COMPOSITION	LOW	QUALIFIED		2024			29/03/2024
ASTME3	STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS	MANUFACTURING	LOW	QUALIFIED					05/12/2023
ASTME340	STANDARD PRACTICE FOR MACROETCHING METALS AND ALLOYS	MICROSCOPY	LOW	QUALIFIED					
ASTME407	TEST METHODE FOR MICROETCHING OF METALS AND ALLOYS	MICROSCOPY	LOW	QUALIFIED					
ASTMG110	STANDARD PRACTICE FOR EVALUATING INTERGRANULAR CORROSION RESISTANCE OF HEAT TREATABLE ALUMINUM ALLOYS BY IMMERSION IN SODIUM CHLORIDE?+?HYDROGEN PEROXIDE SOLUTION	CORROSION	LOW	QUALIFIED					05/12/2023
ASTMG34	STANDARD PRACTICE FOR EVALUATING EXFOLIATION CORROSION SUSCEPTIBILITY IN 2XXX AND 7XXX SERIES ALUMINUM ALLOYS	CORROSION	LOW	QUALIFIED					05/12/2023

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EN2002-1	TENSILE TESTING AT AMBIENT TEMPERATURE	TENSILE	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY PER ICY-CS-19772 NOTE- 2 WAYS WITH ASTM B557, ASTM E8 AND ISO 6892-1	2026			29/03/2024
EN2003-9	AEROSPACE SERIES - TEST METHODS - TITANIUM AND TITANIUM ALLOYS - PART 009: DETERMINATION OF SURFACE CONTAMINATION	MICROSCOPY	LOW	QUALIFIED WITH LIMITATIONS	METHOD A	2025			
EN2243-1	STRUCTURAL ADHESIVES, SINGLE LAP SHEAR	SHEAR	LOW	QUALIFIED		2025			29/04/2025
EN2243-2	STRUCTURAL ADHESIVES, PEEL METAL-METAL, FLOATING ROLLER	PEEL	LOW	QUALIFIED		2025			11/05/2023
EN2243-3	STRUCTURAL ADHESIVES, PEELING TEST, METAL HONEYCOMB-CORE, DRUM PEEL TEST	PEEL	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY 21362-ICY-CS - 1 WAY WITH QVA-Z10-46-05 WITH CONDITIONS: ONLY WITH METALLIC CORES	2025			11/05/2023
EN3114-001	TEST METHOD - MICROSTRUCTURE OF (ALPHA + BÉTA) TITANIUM ALLOY WROUGHT PRODUCTS - PART 1 : GENERAL REQUIREMENTS	MICROSCOPY	LOW	QUALIFIED					16/01/2025

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ISO1183-1	PLASTICS - METHODS FOR DETERMINING THE DENSITY OF NON-CELLULAR PLASTICS - PART 1: IMMERSION METHOD, LIQUID PYKNOMETER METHOD AND TITRATION METHOD	DENSITY	LOW	QUALIFIED					
ISO11885	WATER QUALITY, DETERMINATION OF SELECTED ELEMENTS BY INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETRY (ICP-OES)	SPECTROSCOPY	LOW	QUALIFIED					04/08/2022
ISO1463	MEASUREMENT OF COATING THICKNESS - MICROSCOPICAL METHODE	MICROSCOPY	LOW	QUALIFIED		2026			21/12/2022
ISO148-1	METALLIC MATERIAL - CHARPY PENDULUM IMPACT TEST	IMPACT	LOW	QUALIFIED WITH LIMITATIONS	ONLY AT ROOM TEMPARTURE	2025			17/11/2022
ISO1518-1	PAINTS AND VARNISHES - DETERMINATION OF SCRATCH RESISTANCE - PART 1: CONSTANT-LOADING METHOD	ADHESION	LOW	QUALIFIED					19/04/2024
ISO2409	PAINTS AND VARNISHES - CROSS-CUT TEST	ADHESION	LOW	QUALIFIED		2024			

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ISO2808	PAINTS AND VARNISHES - DETERMINATION OF FILM THICKNESS	THICKNESS	LOW	QUALIFIED WITH LIMITATIONS	METHOD 6A — CROSS-SECTIONING - VERSION 1 — BY GRINDING	2026			
ISO2812-1	PAINTS AND VARNISHES - DETERMINATION OF RESISTANCE TO LIQUIDS - PART 1: IMMERSION IN LIQUIDS OTHER THAN WATER	RESISTANCE TO FLUIDS	LOW	QUALIFIED					25/06/2025
ISO2812-2	PAINTS AND VARNISHES - DETERMINATION OF RESISTANCE TO LIQUIDS - PART 2: WATER IMMERSION METHOD	RESISTANCE TO FLUIDS	LOW	QUALIFIED		2024			
ISO4578	ADHESIVES – DETERMINATION OF PEEL RESISTANCE OF HIGH-STRENGTH ADHESIVE BONDS – FLOATING ROLLER METHOD	PEEL	LOW	QUALIFIED					29/04/2025
ISO4628-2	PAINTS AND VARNISHES - EVALUATION OF DEGRADATION OF COATINGS; DESIGNATION OF QUANTITY AND SIZE OF DEFECTS, AND OF INTENSITY OF UNIFORM CHANGES IN APPEARANCE - PART 2: ASSESSMENT OF DEGREE OF BLISTERING	APPEARANCE	LOW	QUALIFIED					

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ISO48-4	RUBBER, VULCANIZED OR THERMOPLASTIC - DETERMINATION OF HARDNESS - PART 4: INDENTATION HARDNESS BY DUROMETER METHOD (SHORE HARDNESS)	HARDNESS	LOW	QUALIFIED WITH LIMITATIONS	ONLY SHORE A				
ISO604	PLASTICS – DETERMINATION OF COMPRESSIVE PROPERTIES	COMPRESSION	LOW	QUALIFIED					20/01/2023
ISO6270-2	PAINTS AND VARNISHES - DETERMINATION OF RESISTANCE TO HUMIDITY - PART 2: PROCEDURE FOR EXPOSING TEST SPECIMENS IN CONDENSATION-WATER ATMOSPHERES	AGING	LOW	QUALIFIED					29/04/2025
ISO643	STEELS - MICROGRAPHIC DETERMINATION OF THE APPARENT GRAIN SIZE	GRAIN SIZE	LOW	QUALIFIED		2025			
ISO6506-1	METALLIC MATERIALS - BRINELL HARDNESS TEST - PART 1: TEST METHOD	HARDNESS	LOW	QUALIFIED		2025			
ISO6507-1	METALLIC MATERIALS - VICKERS HARDNESS TEST - PART 1: TEST METHOD	HARDNESS	LOW	QUALIFIED		2026			

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ISO6508-1	METALLIC MATERIALS - ROCKWELL HARDNESS TEST - PART 1: TEST METHOD	HARDNESS	LOW	QUALIFIED WITH LIMITATIONS	HRC ONLY	2026			
ISO868	PLASTICS AND EBONITE - DETERMINATION OF INDENTATION HARDNESS BY MEANS OF A DUROMETER (SHORE HARDNESS)	HARDNESS	LOW	QUALIFIED					
ISO9227	CORROSION TESTS IN ARTIFICIAL ATMOSPHERES - SALT SPRAY TESTS	CORROSION	LOW	QUALIFIED WITH LIMITATIONS	ALSO ACCORDING TO QVA-Z10-59-01 (RESTRICTED TO LEGACY PROGRAMS)	2026			
NASM1312-13	FASTENER TEST METHODS, DOUBLE SHEAR TEST	SHEAR	LOW	QUALIFIED WITH LIMITATIONS	ALSO ACCORDING TO THE QVA-Z10-37-04: DOUBLE-SHEAR TEST ON FASTENERS MADE FROM METALLIC MATERIALS / FASTENER (AL, TI)	2025			
QVA-Z09-07-27	DETERMINATION OF CHROMIUM (VI) IN SURFACE TREATMENT BATHS	BATH ANALYSIS	LOW	QUALIFIED					
QVA-Z09-07-31	DETERMINATION OF SULPHATE IN SURFACE TREATMENT BATHS	BATH ANALYSIS	LOW	QUALIFIED					29/04/2025

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QVA-Z09-07-36	DETERMINATION OF HYDROXIDE IN ALKALINE CLEANING BATHS	BATH ANALYSIS	LOW	QUALIFIED					
QVA-Z09-11-01	INSPECTION OF POLYALKYLENE GLYCOL BATHS	BATH ANALYSIS	LOW	QUALIFIED					
QVA-Z09-19-01	DETERMINATION OF THE PH-VALUE IN AQUEOUS MEDIA	PH	LOW	QUALIFIED					26/09/2024
QVA-Z09-20-00	DETERMINATION OF WATER HARDNESS	COMPOSITION	LOW	QUALIFIED					
QVA-Z09-22-00	DETERMINATION OF DRY RESIDUE	CONTENT	LOW	QUALIFIED					
QVA-Z09-23-00	DETERMINATION OF THE SPECIFIC CONDUCTIVITY IN AQUEOUS MEDIA	CONDUCTIVITY	LOW	QUALIFIED					

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QVA-Z09-25-00	DETERMINATION OF REMOVAL RATE OF ALKALINE PICKLING BATHS	BATH ANALYSIS	LOW	QUALIFIED					
QVA-Z10-53-00	METALLOGRAPHIC TEST, MACROSCOPIC EXAMINATION, GENERAL INFORMATION	MICROSCOPY	LOW	QUALIFIED					
QVA-Z10-61-00	DETERMINATION OF PARTICLE SIZES	SIZING	LOW	QUALIFIED					29/04/2025

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AITM1-0017	THE DETERMINATION OF THE EFFECT OF LIQUID CLEANING AGENTS UPON THE ADHESION OF PAINT PRIMERS TO ADHESIVE BONDING PRIMERS	AGING	NA	WITHDRAWN						25/11/2024
AITM1-0021	THE DETERMINATION OF THE EFFECT OF LIQUID CLEANING AGENTS UPON THE PROPERTIES OF ELASTOMERIC MATERIALS	RESISTANCE TO FLUIDS	LOW	WITHDRAWN						25/11/2024
AITM1-0022	WETTABILITY TEST	WETTABILITY	LOW	WITHDRAWN						25/11/2024
AITM1-0025	FIBER REINFORCED PLASTICS FLATWISE TENSILE TEST OF COMPOSITE SANDWICH PANEL	TENSILE	LOW	WITHDRAWN		2025				28/03/2025
AITM1-0030	SEALANTS: DETERMINATION OF LAP SHEAR STRENGTH	SHEAR	LOW	WITHDRAWN						25/11/2024
AITM2-0011	AIRBUS INDUSTRIE TEST METHOD DRYING TIME	DRYING	LOW	WITHDRAWN						25/11/2024

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Test Standard(s)	Test Label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparison test Participation.*	Facility	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
AITM3-0015	DETERMINATION OF PHOSPHORIC ACID CONTENT	CONTENT	LOW	WITHDRAWN						25/11/2024
ASTMC363	STANDARD TEST METHOD FOR NODE TENSILE STRENGTH OF HONEYCOMB CORE MATERIALS	TENSILE	LOW	WITHDRAWN						27/01/2025
ASTME8	STANDARD TEST METHODS FOR TENSION TESTING OF METALLIC MATERIALS	TENSILE	LOW	WITHDRAWN	EN 2002-1 HAS BEEN ESTABLISHED THE MASTER STANDARD ACCORDING TO THE ANALYSIS ABOUT THE TECHNOLOGICAL SCOPE OF TENSILE TESTING OF METALLIC MATERIALS AT ROOM TEMPERATURE ( ICY-CS-19772 NOTE). SEE EN 2002-1 FOR INTERCHANGEABILITY WITH ASTM E8	2023				19/10/2022
ASTME9	STANDARD TEST METHODS OF COMPRESSION TESTING OF METALLIC MATERIALS AT ROOM TEMPERATURE	COMPRESSION	LOW	WITHDRAWN		2026				11/09/2024
EN2243-4	STRUCTURAL ADHESIVES, METAL-HONEYCOMB- CORE FLATWISE TENSILE TEST	TENSILE	LOW	WITHDRAWN		2025				28/03/2025

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Société par actions simplifiée au capital de 2.704.375 Euros  
RCS Toulouse 383 474 81

Registered office:  
1, rond-point Maurice Bellonte  
31700 Blagnac, France

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### Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for

GMA-WERKSTOFFPRUEFUNG GMBH - (305214)

Test Standard(s)	Test Label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparison test Participation.*	Facility	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
EN2667-2	STRUCTURAL ADHESIVES, COMPRESSIVE TUBE SHEAR	SHEAR	LOW	WITHDRAWN	ONLY ACCORDING TO QVA-Z10-46-06 (RESTRICTED TO LEGACY PROGRAMS)					25/11/2024
EN3114	AEROSPACE SERIES - MICROSTRUCTURE OF (A+B) TITANIUM ALLOYS WROUGHT PRODUCTS - PART 1, 2, 3 AND 4	MICROSCOPY	NA	WITHDRAWN						16/04/2025
ISO14125	FIBER – REINFORCED PLASTIC COMPOSITES – DETERMINATION OF FLEXURAL PROPERTIES	FLEXURE	LOW	WITHDRAWN						25/11/2024
ISO1518	PAINTS AND VARNISHES; SCRATCH TEST	ADHESION	LOW	WITHDRAWN						19/04/2024
ISO6506	METALLIC MATERIALS - BRINELL HARDNESS TEST	HARDNESS	LOW	WITHDRAWN		2025				08/01/2025
ISO6507	METALLIC MATERIALS - VICKERS HARDNESS TEST	HARDNESS	LOW	WITHDRAWN		2026				08/01/2025

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GMA-WERKSTOFFPRUEFUNG GMBH - (305214)

Test Standard(s)	Test Label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparison test Participation.*	Facility	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ISO6508	METALLIC MATERIALS - ROCKWELL HARDNESS TEST	HARDNESS	LOW	WITHDRAWN	HRC ONLY	2026				08/01/2025
ISO8510-2	ADHESIVES - PEEL TEST FOR A FLEXIBLE-BONDED-TO-RIGID TEST SPECIMEN ASSEMBLY - PART 2: 180° PEEL	PEEL	LOW	WITHDRAWN						28/03/2025
NASM1312-20	FASTENER TEST METHODS, SINGLE SHEAR	SHEAR	LOW	WITHDRAWN						25/11/2024
NASM1312-8	FASTENER TEST METHODS, TENSILE STRENGTH	TENSILE	LOW	WITHDRAWN		2026				29/04/2025

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