

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>

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## Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for GMA-WERKSTOFFPRUEFUNG GMBH - (305214)

Test Standard(s)*	Test label	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	LOW	QUALIFIED					10/05/2023
AITM1-0017	THE DETERMINATION OF THE EFFECT OF LIQUID CLEANING AGENTS UPON THE ADHESION OF PAINT PRIMERS TO ADHESIVE BONDING PRIMERS	LOW	QUALIFIED					11/05/2023
AITM1-0019	DETERMINATION OF TENSILE LAP SHEAR STRENGTH OF COMPOSITE JOINTS	LOW	QUALIFIED		2025			11/05/2023
AITM1-0021	THE DETERMINATION OF THE EFFECT OF LIQUID CLEANING AGENTS UPON THE PROPERTIES OF ELASTOMERIC MATERIALS	LOW	QUALIFIED					11/05/2023
AITM1-0022	WETTABILITY TEST	LOW	QUALIFIED					
AITM1-0025	FIBER REINFORCED PLASTICS FLATWISE TENSILE TEST OF COMPOSITE SANDWICH PANEL	LOW	QUALIFIED		2025			11/05/2023

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AITM1-0030	SEALANTS: DETERMINATION OF LAP SHEAR STRENGTH	LOW	QUALIFIED					
AITM1-0033	SEALANTS: DETERMINATION OF THE CURING RATE OF SEALING MATERIALS	LOW	QUALIFIED					
AITM1-0047	GLARE MATERIAL. INTERLAMINAR SHEAR TEST	LOW	QUALIFIED					11/05/2023
AITM1-0049	GLARE MATERIAL. TENSILE TEST	LOW	QUALIFIED					11/05/2023
AITM2-0011	AIRBUS INDUSTRIE TEST METHOD DRYING TIME	LOW	QUALIFIED					
AITM3-0007	DROP (REACTION ) TEST ON ALUMINIUM AND ALUMINIUM ALLOYS	LOW	QUALIFIED					04/12/2023

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AITM3-0013	TESTING OF SUSCEPTIBILITY TO EXFOLATION CORROSION IN 2XXX AND 7XXX SERIES WROUGHT ALUMINIUM ALLOY PRODUCTS	LOW	QUALIFIED					
AITM3-0015	DETERMINATION OF PHOSPHORIC ACID CONTENT	LOW	QUALIFIED					
AITM3-0029	DETERMINATION OF IRON (III) AS REACTIVE COMPOUND IN ACIDIC SURFACE TREATMENT BATHS	LOW	QUALIFIED					
AITM3-0030	TITRATION OF SULPHURIC AND TARTARIC ACID IN ANODIZING ELECTROLYTES	LOW	QUALIFIED		2025			
AITM3-0032	ANALYSIS OF METALS IN GALVANIC BATHES BY ICP-SPECTROSCOPY	LOW	QUALIFIED WITH LIMITATIONS	NCF V53D13013279 ACCEPTED	2025			
AITM3-0034	COMBINED DETERMINATION OF FREE HYDROXIDE AND ALUMINIUM IN ALKALINE SURFACE TREATMENT BATHS	LOW	QUALIFIED					

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AITM3-0035	DETERMINATION OF CHLORIDE CONTAMINATIONS IN SURFACE TREATMENT BATHS	LOW	QUALIFIED		2025			
AITM3-0036	DETERMINATION OF HYDROGEN IONS IN SURFACE TREATMENT BATHS	LOW	QUALIFIED		2025			
AITM3-0037	DETERMINATION OF PHOSPHORIC AND SULPHURIC ACID IN ANODIZING ELECTROLYTES	LOW	QUALIFIED					
AITM3-0038	DETERMINATION OF NON-VOLATILE-RESIDUE	LOW	QUALIFIED					
AITM4-0002	MICROSTRUCTURAL CHARACTERIZATION OF WELDED ALUMINIUM STRUCTURES	LOW	QUALIFIED					
AITM5-0009	DETERMINATION OF RESISTANCE TO BOND LINE CORROSION	HIGH	QUALIFIED					

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AITM7-0003	SEALANTS: DETERMINATION OF APPLICATION TIME OF SEALING MATERIALS	LOW	QUALIFIED					
ASTMB117	STANDARD PRACTICE FOR OPERATING SALT SPRAY (FOG) APPARATUS	LOW	QUALIFIED		2024			04/12/2023
ASTMC363	STANDARD TEST METHOD FOR NODE TENSILE STRENGTH OF HONEYCOMB CORE MATERIALS	LOW	QUALIFIED					11/05/2023
ASTMD1125	STANDARD TEST METHODS FOR ELECTRICAL CONDUCTIVITY AND RESISTIVITY OF WATER	LOW	QUALIFIED WITH LIMITATIONS	LIMITED TO METHOD A				
ASTMD1293	STANDARD TEST METHODS FOR PH OF WATER	LOW	QUALIFIED WITH LIMITATIONS	LIMITED TO METHOD B				
ASTME112	STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE	LOW	QUALIFIED		2025			

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ASTME1409	STANDARD TEST METHOD FOR DETERMINATION OF OXYGEN AND NITROGEN IN TITANIUM AND TITANIUM ALLOYS BY THE INERT GAS FUSION TECHNIQUE	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	LOW	QUALIFIED		2024			29/03/2024
ASTME1941	DETERMINATION OF CARBON IN REFRACTORY AND REACTIVE METALS AND THEIR ALLOYS BY COMBUSTION ANALYSIS	LOW	QUALIFIED		2024			29/03/2024
ASTME3	STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS	LOW	QUALIFIED					05/12/2023
ASTME340	STANDARD PRACTICE FOR MACROETCHING METALS AND ALLOYS	LOW	QUALIFIED					
ASTME407	TEST METHODE FOR MICROETCHING OF METALS AND ALLOYS	LOW	QUALIFIED					

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ASTMG110	STANDARD PRACTICE FOR EVALUATING INTERGRANULAR CORROSION RESISTANCE OF HEAT TREATABLE ALUMINUM ALLOYS BY IMMERSION IN SODIUM CHLORIDE+?HYDROGEN PEROXIDE SOLUTION	LOW	QUALIFIED					05/12/2023
ASTMG34	STANDARD PRACTICE FOR EVALUATING EXFOLIATION CORROSION SUSCEPTIBILITY IN 2XXX AND 7XXX SERIES ALUMINUM ALLOYS	LOW	QUALIFIED					05/12/2023
EN2002-1	TENSILE TESTING AT AMBIENT TEMPERATURE	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY PER ICY-CS-19772 NOTE- 2 WAYS WITH ASTM B557, ASTM E8 AND ISO 6892-1	2024			29/03/2024
EN2003-9	AEROSPACE SERIES - TEST METHODS - TITANIUM AND TITANIUM ALLOYS - PART 009: DETERMINATION OF SURFACE CONTAMINATION	LOW	QUALIFIED WITH LIMITATIONS	METHOD A	2025			
EN2243-1	STRUCTURAL ADHESIVES SINGLE LAP SHEAR	LOW	QUALIFIED		2025			11/05/2023
EN2243-2	STRUCTURAL ADHESIVES PEEL METAL-METAL FLOATING ROLLER	LOW	QUALIFIED		2025			11/05/2023

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EN2243-3	STRUCTURAL ADHESIVES PEELING TEST METAL HONEYCOMB-CORE DRUM PEEL TEST	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
EN2243-4	STRUCTURAL ADHESIVES METAL-HONEYCOMB-CORE FLATWISE TENSILE TEST	LOW	QUALIFIED		2025			11/05/2023
EN2667-2	STRUCTURAL ADHESIVES COMPRESSIVE TUBE SHEAR	LOW	QUALIFIED WITH LIMITATIONS	ONLY ACCORDING TO QVA-Z10-46-06 (RESTRICTED TO LEGACY PROGRAMS)				11/05/2023
EN3114	AEROSPACE SERIES - MICROSTRUCTURE OF (A+B) TITANIUM ALLOYS WROUGHT PRODUCTS - PART 1 2 3 AND 4	LOW	QUALIFIED					
ISO1183-1	PLASTICS - METHODS FOR DETERMINING THE DENSITY OF NON-CELLULAR PLASTICS - PART 1: IMMERSION METHOD LIQUID PYKNOMETER METHOD AND TITRATION METHOD	LOW	QUALIFIED					
ISO11885	WATER QUALITY. DETERMINATION OF SELECTED ELEMENTS BY INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETRY (ICP-OES)	LOW	QUALIFIED					04/08/2022

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ISO14125	FIBER – REINFORCED PLASTIC COMPOSITES – DETERMINATION OF FLEXURAL PROPERTIES	LOW	QUALIFIED					11/05/2023
ISO1463	MEASUREMENT OF COATING THICKNESS - MICROSCOPICAL METHODE	LOW	QUALIFIED		2024			21/12/2022
ISO148-1	METALLIC MATERIAL - CHARPY PENDULUM IMPACT TEST	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	LOW	QUALIFIED					19/04/2024
ISO2409	PAINTS AND VARNISHES - CROSS-CUT TEST	LOW	QUALIFIED		2024			
ISO2808	PAINTS AND VARNISHES - DETERMINATION OF FILM THICKNESS	LOW	QUALIFIED WITH LIMITATIONS	METHOD 6A — CROSS-SECTIONING - VERSION 1 — BY GRINDING	2024			

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ISO2812-2	PAINTS AND VARNISHES - DETERMINATION OF RESISTANCE TO LIQUIDS - PART 2: WATER IMMERSION METHOD	LOW	QUALIFIED		2024			
ISO4578	ADHESIVES – DETERMINATION OF PEEL RESISTANCE OF HIGH-STRENGTH ADHESIVE BONDS – FLOATING ROLLER METHOD	LOW	QUALIFIED					11/05/2023
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	LOW	QUALIFIED					
ISO48-4	RUBBER VULCANIZED OR THERMOPLASTIC - DETERMINATION OF HARDNESS - PART 4: INDENTATION HARDNESS BY DUROMETER METHOD (SHORE HARDNESS)	LOW	QUALIFIED WITH LIMITATIONS	ONLY SHORE A				
ISO604	PLASTICS – DETERMINATION OF COMPRESSIVE PROPERTIES	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	LOW	QUALIFIED					

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ISO643	STEELS - MICROGRAPHIC DETERMINATION OF THE APPARENT GRAIN SIZE	LOW	QUALIFIED		2025			
ISO6506	METALLIC MATERIALS - BRINELL HARDNESS TEST	LOW	QUALIFIED		2025			
ISO6507	METALLIC MATERIALS - VICKERS HARDNESS TEST	LOW	QUALIFIED		2024			
ISO6508	METALLIC MATERIALS - ROCKWELL HARDNESS TEST	LOW	QUALIFIED WITH LIMITATIONS	HRC ONLY	2024			
ISO8510-2	ADHESIVES - PEEL TEST FOR A FLEXIBLE-BONDED-TO-RIGID TEST SPECIMEN ASSEMBLY - PART 2: 180° PEEL	LOW	QUALIFIED					11/05/2023
ISO868	PLASTICS AND EBONITE - DETERMINATION OF INDENTATION HARDNESS BY MEANS OF A DUROMETER (SHORE HARDNESS)	LOW	QUALIFIED					

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ISO9227	CORROSION TESTS IN ARTIFICIAL ATMOSPHERES - SALT SPRAY TESTS	LOW	QUALIFIED WITH LIMITATIONS	ALSO ACCORDING TO QVA-Z10-59-01 (RESTRICTED TO LEGACY PROGRAMS)	2024			
NASM1312-13	FASTENER TEST METHODS DOUBLE SHEAR TEST	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			
NASM1312-20	FASTENER TEST METHODS SINGLE SHEAR	LOW	QUALIFIED					
NASM1312-8	FASTENER TEST METHODS TENSILE STRENGTH	LOW	QUALIFIED		2024			29/03/2024
QVA-Z09-07-27	DETERMINATION OF CHROMIUM (VI) IN SURFACE TREATMENT BATHS	LOW	QUALIFIED					
QVA-Z09-07-31	DETERMINATION OF SULPHATE IN SURFACE TREATMENT BATHS	LOW	QUALIFIED					

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

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QVA-Z09-25-00	DETERMINATION OF REMOVAL RATE OF ALKALINE PICKLING BATHS	LOW	QUALIFIED					
QVA-Z10-53-00	METALLOGRAPHIC TEST MACROSCOPIC EXAMINATION GENERAL INFORMATION	LOW	QUALIFIED					
QVA-Z10-61-00	DETERMINATION OF PARTICLE SIZES	LOW	QUALIFIED					

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Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ASTME8	STANDARD TEST METHODS FOR TENSION TESTING OF METALLIC MATERIALS	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	LOW	WITHDRAWN		2024			11/09/2024
ISO1518	PAINTS AND VARNISHES; SCRATCH TEST	LOW	WITHDRAWN					19/04/2024

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