

BK WERKSTOFFTECHNIK-PRUEFSTELLE

FUER WERKSTOFFE GMBH ZUR AUMUNDSWIESE 2

28279, BREMEN

DE

143041

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 (<u>https://www.airbus.com/be-an-airbus-supplier.html</u>)-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 BK WERKSTOFFTECHNIK-PRUEFSTELLE - (143041)

| Test Standard(s)* | Test label | Complexity | Qualification Status | Limitation | Next External comparison test Participation. ** | Technical Qualification Reference | Deviation Reference | Last Qualification Update date |
|-------------------|----------------------------------------------------------------------------------------------------------------|------------|----------------------------|---------------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| AITM1-0002 | FIBRE REINFORCED PLASTICSDETERMINATION OF IN-PLANE-SHEAR PROPERTIES | LOW | QUALIFIED | | 2025 | | | 28/02/2024 |
| AITM1-0019 | DETERMINATION OF TENSILE LAP SHEAR STRENGTH OF COMPOSITE JOINTS | LOW | QUALIFIED | | 2025 | | | 28/02/2024 |
| AITM1-0053 | CARBON FIBRE REINFORCED PLASTIC- DETERMINATION OF FRACTURE TOUGHNESS ENERGY OF BONDED JOINTS-MODE I-G1C | HIGH | QUALIFIED WITH LIMITATIONS | INCLUDING LOAD INTRODUCTION USING BLOCKS | 2025 | 090554 | | 28/02/2024 |
| AITM1-0067 | DETERMINATION OF TENSION THROUGH THE HOLE STRENGTH ON FASTENED JOINTS | LOW | QUALIFIED WITH LIMITATIONS | / SPECIMEN MACHINING NOT INCLUDED | | | | 07/09/2022 |
| AITM4-0002 | MICROSTRUCTURAL CHARACTERIZATION OF WELDED ALUMINIUM STRUCTURES | LOW | QUALIFIED | | | | | |
| AITM4-0003 | TEST METHOD FOR DETERMINING THE PORE CONTENT OF FIBER REINFORCED PLASTICS USING AUTOMATIC IMAGE ANALYSIS | HIGH | QUALIFIED | | 2025 | 090257 | | |

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|-------------------|-------------------------------------------------------------------------|------------|-------------------------|------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| AITM4-0005 | MACROSCOPIC AND MICROSCOPIC EXAMINATION OF FIBER REINFORCED PLASTICS | LOW | QUALIFIED | | | | | |
| ASTME112 | STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE | LOW | QUALIFIED | | 2024 | | | |
| ASTME238 | STANDARD TEST METHOD FOR PIN-TYPE BEARING TEST OF METALLIC MATERIALS | HIGH | QUALIFIED | | 2025 | 090556 | | |
| ASTME3 | STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS | LOW | QUALIFIED | | | | | 05/12/2023 |
| ASTME340 | STANDARD PRACTICE FOR MACROETCHING METALS AND ALLOYS | LOW | QUALIFIED | | | | | |
| ASTME384 | TEST METHODE FOR MICROHARDNESS OF MATERIALS | LOW | QUALIFIED | | 2025 | | | 30/11/2023 |

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|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------|---------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| ASTME399 | STANDARD TEST METHOD FOR PLAIN STRAIN FRACTURE TOUGHNESS OF METALLIC MATERIALS | HIGH | QUALIFIED | | 2024 | QCS220912 | | 29/11/2023 |
| ASTME407 | TEST METHODE FOR MICROETCHING OF METALS AND ALLOYS | LOW | QUALIFIED | | | | | 05/12/2023 |
| ASTME9 | STANDARD TEST METHODS OF COMPRESSION TESTING OF METALLIC MATERIALS AT ROOM TEMPERATURE | LOW | QUALIFIED | | 2024 | 090556 | | |
| ASTMG110 | STANDARD PRACTICE FOR EVALUATING INTERGRANULAR CORROSION RESISTANCE OF HEAT TREATABLE ALUMINUM ALLOYS BY IMMERSION IN SODIUM CHLORIDE?+?HYDROGEN PEROXIDE SOLUTION | LOW | QUALIFIED | | | | | |
| ASTMG34 | STANDARD PRACTICE FOR EVALUATING EXFOLIATION CORROSION SUSCEPTIBILITY IN 2XXX AND 7XXX SERIES ALUMINUM ALLOYS | LOW | QUALIFIED | | | | | |
| EN2002-1 | TENSILE TESTING AT AMBIENT TEMPERATURE | LOW | QUALIFIED WITH LIMITATIONS | INTERCHANGEABILITY PER 19772-ICY-CS NOTE- 2 WAYS WITH ASTM B 557 | 2025 | | | 01/09/2022 |

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|-------------------|-------------------------------------------------------------------------------------------------------------------------|------------|----------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| EN2003-9 | AEROSPACE SERIES - TEST METHODS - TITANIUM AND TITANIUM ALLOYS - PART 009: DETERMINATION OF SURFACE CONTAMINATION | LOW | QUALIFIED WITH LIMITATIONS | ALSO ACCORDING TO AIPI04-00-005 | 2024 | | | 22/03/2024 |
| EN2243-1 | STRUCTURAL ADHESIVES SINGLE LAP SHEAR | LOW | QUALIFIED | | 2025 | | | 28/02/2024 |
| EN2243-2 | STRUCTURAL ADHESIVES PEEL METAL-METAL FLOATING ROLLER | LOW | QUALIFIED WITH LIMITATIONS | INTERCHANGEABILITY 21098-ICY-CS NOTE - 1 WAY WITH QVA-Z10-46-03 WITHOUT CONDITION | 2025 | | | |
| EN6018 | DETERMINATION OF DENSITY ACCORDING TO DISPLACEMENT METHODE | LOW | QUALIFIED | | | | | |
| EN6072 | CONSTANT AMPLITUDE FATIGUE TESTING | HIGH | QUALIFIED | | 2025 | 090560 | | 04/11/2022 |
| ISO148-1 | METALLIC MATERIAL - CHARPY PENDULUM IMPACT TEST | LOW | QUALIFIED | | 2024 | | | 28/09/2022 |

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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| ISO178 | PLASTICS – DETERMINATION OF FLEXURAL PROPERTIES | LOW | QUALIFIED | | | | | |
| ISO4578 | ADHESIVES – DETERMINATION OF PEEL RESISTANCE OF HIGH-STRENGTH ADHESIVE BONDS – FLOATING ROLLER METHOD | LOW | QUALIFIED | | | | | |
| ISO4587 | ADHESIVE – DETERMINATION OF TENSILE LAP- SHEAR STRENGTH OF RIGID-TO-RIGID BONDED ASSEMBLIES | LOW | QUALIFIED | | | | | |
| ISO527-4 | PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 4: TEST CONDITIONS FOR ISOTROPIC AND ORTHOTROPIC FIBER REINFORCED PLASTIC COMPOSITES | LOW | QUALIFIED | | 2024 | | | |
| ISO604 | PLASTICS – DETERMINATION OF COMPRESSIVE PROPERTIES | LOW | QUALIFIED | | | | | |
| ISO643 | STEELS - MICROGRAPHIC DETERMINATION OF THE APPARENT GRAIN SIZE | LOW | QUALIFIED | | 2024 | | | |

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|-------------------|-----------------------------------------------------|------------|----------------------------|---------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| ISO6506 | METALLIC MATERIALS - BRINELL HARDNESS TEST | LOW | QUALIFIED | | 2024 | | | 22/03/2024 |
| ISO6507 | METALLIC MATERIALS - VICKERS HARDNESS TEST | LOW | QUALIFIED WITH LIMITATIONS | ALSO IN ACCORDANCE WITH AIPI04-00-005 | 2024 | | | 22/03/2024 |
| ISO6508 | METALLIC MATERIALS - ROCKWELL HARDNESS TEST | LOW | QUALIFIED | | 2024 | | | 22/03/2024 |
| ISO8493 | METALLIC MATERIALS - TUBE - DRIFT-EXPANDING TEST | LOW | QUALIFIED | | | | | 01/09/2022 |

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|-------------------|---------------------------------------------------------------------------------------------------------|------------|-------------------------|--------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| AITM1-0001 | FIBER REINFORCED PLASTICS DETERMINATION OF MECHANICAL DEGRADATION DUE TO CHEMICAL PAINT STRIPPERS | LOW | WITHDRAWN | | | | | 30/05/2024 |
| AITM1-0003 | DETERMINATION OF THE GLASS TRANSITION TEMPERATURES | HIGH | WITHDRAWN | | 2025 | 170021 | | 30/05/2024 |
| AITM1-0005 | FIBRE REINFORCED PLASTICS DETERMINATION OF INTERLAMINAR FRACTURE TOUGHNESS ENERGY MODE I | HIGH | WITHDRAWN | | 2024 | 090554 | | 30/05/2024 |
| AITM1-0006 | FIBRE REINFORCED PLASTICS DETERMINATION OF INTERLAMINAR FRACTURE TOUGHNESS ENERGY MODE II | HIGH | WITHDRAWN | | | 090555 | | 30/05/2024 |
| AITM1-0007 | FIBRE REINFORCED PLASTICS DETERMINATION OF PLAIN HOLE TENSILE STRENGTH COUNTERSUNK HEAD | LOW | WITHDRAWN | | 2024 | | | 30/05/2024 |
| AITM1-0008 | FIBRE REINFORCED PLASTICS DETERMINATION OF FILLED HOLE COMPRESSION STRENGTH COUNTERSUNK HEAD | HIGH | WITHDRAWN | *LIMITED TO SPECIMEN TYPE A1, A2 (UP TO 250 KN), B, C & D | 2025 | 110519-V02 | | 08/04/2024 |

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|-------------------|---------------------------------------------------------------------------------------------------------------|------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| AITM1-0009 | FIBRE REINFORCED PLASTICS DETERMINATION OF BEARING STRENGTH BY EITHER PIN OR BOLT BEARING CONFIGURATION | HIGH | WITHDRAWN | | 2024 | 090547 | | 08/04/2024 |
| AITM1-0010 | FIBRE REINFORCED PLASTICS DETERMINATION OF COMPRESSION STRENGTH AFTER IMPACT | HIGH | WITHDRAWN | COMPRESSION TEST ONLY. | 2024 | 131072 | | 08/04/2024 |
| AITM1-0018 | SANDWICH FLEXURAL TEST 4-POINT BENDING | LOW | WITHDRAWN | | 2024 | | | 08/04/2024 |
| AITM1-0029 | DETERMINATION OF TENSILE STRENGTH OF TAPERED OR STEPPED JOINTS | LOW | WITHDRAWN | | | | | 08/04/2024 |
| AITM1-0065 | FIBER REINFORCED PLASTICS DETERMINATION OF JOINT STRENGTH OF MECHANICALLY FASTENED JOINTS | HIGH | WITHDRAWN | -NO SPECIMEN TYPE RESTRICTION, BOTH TYPES I, II AND III ARE COVERED. / -ONLY PRE-ASSEMBLED SPECIMENS ARE COVERED. / -FULL TEST TEMPERATURE RANGE IS COVERED, TYPICALLY -60°C TO 180°C. / SPECIMEN MACHINING NOT INCLUDED | 2024 | 180540 | | 08/04/2024 |
| AITM1-0066 | FIBRE REINFORCED PLASTICS - DETERMINATION OF PULL-OUT/ PULL-THROUGH STRENGTH ON RIVETED JOINTS | LOW | WITHDRAWN | | | | | 08/04/2024 |

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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| AITM1-0069 | FIBRE REINFORCED PLASTICS DETERMINATION OF CURVED-BEAM FAILURE LOAD | HIGH | WITHDRAWN | | 2024 | 150836 | | 08/04/2024 |
| AITM3-0002 | ANALYSIS OF NON METALLIC MATERIALS (UNCURED) BY DIFFERENTIAL SCANNING CALORIMETRY | HIGH | WITHDRAWN | | 2025 | 170022 | | 30/05/2024 |
| AITM3-0008 | DETERMINATION OF THE EXTENT OF CURE BY DIFFERENTIAL SCANNING CALORIMETRY | HIGH | WITHDRAWN | | 2025 | 170023 | | 08/04/2024 |
| AITM3-0027 | DETERMINATION OF THE MELTING BEHAVIOUR AND THE EXTENT OF CRYSTALLINITY OF SEMI- CRYSTALLINE MATERIALS BY DIFFERENTIAL SCANNING CALORIMETRY (DSC) | HIGH | SUSPENDED | | 2024 | QCS220069 | | 31/07/2024 |
| EN2243-3 | STRUCTURAL ADHESIVES PEELING TEST METAL HONEYCOMB-CORE DRUM PEEL TEST | LOW | WITHDRAWN | | | | | 18/06/2024 |
| EN2378 | AEROSPACE SERIES - FIBRE REINFORCED PLASTICS - DETERMINATION OF WATER ABSORPTION BY IMMERSION | LOW | WITHDRAWN | | | | | 08/04/2024 |

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|-------------------|------------------------------------------------------------------------------------------------------|------------|-------------------------|---------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| EN2561 | CARBON FIBRE REINFORCED PLASTICS TENSILE TEST PARALLEL TO FIBRE DIRECTION | LOW | WITHDRAWN | | 2024 | | | 08/04/2024 |
| EN2562 | CARBON FIBRE REINFORCED PLASTICS FLEXURAL TEST PARALLEL TO FIBRE DIRECTION | LOW | WITHDRAWN | | 2024 | | | 08/04/2024 |
| EN2563 | CARBON FIBRE REINFORCED PLASTICS DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH | LOW | WITHDRAWN | | 2025 | | | 08/04/2024 |
| EN2564 | AEROSPACE SERIES - CARBON FIBRE LAMINATES - DETERMINATION OF THE FIBRE RESIN AND VOID CONTENTS | LOW | WITHDRAWN | ALSO ACCORDING TO QVA-Z10-46-12 | 2025 | | | 08/04/2024 |
| EN2597 | CARBON FIBRE REINFORCED PLASTICS TENSILE TEST PERPENDICULAR TO THE FIBRE DIRECTION | LOW | WITHDRAWN | | 2024 | | | 08/04/2024 |
| EN2747 | GLASS FIBRE REINFORCED PLASTICS TENSILE TEST | LOW | WITHDRAWN | | 2024 | | | 08/04/2024 |

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|-------------------|-----------------------------------------------------------------------------------------------------------------------|------------|-------------------------|------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------------------------------|
| EN2823 | FIBRE REINFORCED PLASTICS - DETERMINATION OF THE EFFECT OF EXPOSURE TO HUMID ATMOSPHERE | LOW | WITHDRAWN | | | | | 08/04/2024 |
| EN2850 | CARBON FIBRE REINFORCED PLASTICS COMPRESSION TEST PARALLEL TO FIBRE DIRECTION LOAD INTRODUCTION BY SHEAR | HIGH | WITHDRAWN | | | | | 01/08/2022 |
| EN2850 | CARBON FIBRE REINFORCED PLASTICS COMPRESSION TEST PARALLEL TO FIBRE DIRECTION LOAD INTRODUCTION BY SHEAR | HIGH | WITHDRAWN | """LIMITED TO TYPE B TEST PIECE""" | 2024 | 126629 | | 30/04/2024 |
| ISO14130 | FIBRE REINFORCED PLASTIC COMPOSITES: DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH BY SHORT BEAM METHOD | LOW | WITHDRAWN | | | | | 08/04/2024 |
| NASM1312-4 | FASTENER TEST METHODS LAP JOINT SHEAR TEST COMPOSITE | LOW | WITHDRAWN | / SPECIMEN MACHINING NOT INCLUDED | | | | 17/01/2024 |

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