



**Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for  
ELEMENT MATERIALS TECHNOLOGY - (321693)**

Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation.**	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ASTME112	STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE	LOW	QUALIFIED		2025			
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		2025			12/07/2023
ASTME3	STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS	LOW	QUALIFIED					
ASTME340	TEST METHODE FOR MACROETCHING OF METALS AND ALLOYS	LOW	QUALIFIED					11/04/2023
EN2002-1	TENSILE TESTING AT AMBIENT TEMPERATURE	LOW	QUALIFIED WITH LIMITATIONS	LIMITATION 1: WITHOUT YOUNG'S MODULUS LIMITATION 2: INTERCHANGEABILITY PER ICY-CS-19772 NOTE- 2 WAYS WITH ASTM E2002-1 / ASTMB557	2025			
EN2003-10	AEROSPACE SERIES - TITANIUM AND TITANIUM ALLOYS - TEST METHODS - PART 010: SAMPLING FOR DETERMINATION OF HYDROGEN CONTENT	LOW	QUALIFIED		2025			

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Attestation Issuance Date: 19/12/2023



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EN2003-9	AEROSPACE SERIES - TEST METHODS - TITANIUM AND TITANIUM ALLOYS - PART 009: DETERMINATION OF SURFACE CONTAMINATION	LOW	QUALIFIED WITH LIMITATIONS	METHOD A ONLY	2025			
EN3114	AEROSPACE SERIES - MICROSTRUCTURE OF (A+B) TITANIUM ALLOYS WROUGHT PRODUCTS - PART 1 2 3 AND 4	LOW	QUALIFIED					

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EN3976	TITANIUM AND TITANIUM ALLOYS - CHEMICAL ANALYSIS FOR THE DETERMINATION OF HYDROGENCONTENT.	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY PER 21681-ICY-CS NOTE- 2 WAYS WITH CONDITIONS WITH ASTM E1447.  EN 3976 HAS BEEN ESTABLISHED AS THE MASTER TEST METHOD FOR CHEMICAL ANALYSIS FOR THE DETERMINATION OF HYDROGEN CONTENT AND ASTM E 1447 HAS BEEN ESTABLISHED AS TWO WAY INTERCHANGEABLE WITH CONDITIONS WITH THE MASTER TEST METHOD FOR THE FOLLOWING MODES: - EXTRACTION MODE WITH FLUX AT 1800°C WITH NITROGEN OR ARGON SUPPORTING GAS. - EXTRACTION MODE WITHOUT FLUX AT 2100°C WITH ARGON SUPPORTING GAS.  1. SAMPLE LOCATION ACCORDING TO EN 3976 6.2.1 SHALL APPLY. 2. SAMPLING IN THE FORM OF CHIPS SHALL BE AVOIDED DUE TO THE RISK OF HEATING THE SAMPLE FOR ANALYSIS. 3. ALTERNATIVE CLEANING PROCESS FOR SEMI-FINISHED PRODUCTS SHALL BE APPLIED AS DESCRIBED IN EN 3976 (6.2.2)	2025			03/04/2023

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