

特种工艺资质批准证书 Special Process Certificate

证书编号 Certificate Number: Eb-256032-21-01

中国航发商发 AECC CAE				
特种工艺资质批准证书 Special Process Certificate				
批准类型 Approve Type: 正常批准				
供应商名称 Supplier Name: 埃类特材料科技(上海)有限公司			发布日期 Issue Date: 2021-05-18	
地址 Address: 上海市青浦区崧盈路 398 号 7 幢一层			联系人 Contact person: Helen Zhang	
工艺名称	子项目	特种工艺编号	供应商技术代表	认可标准
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-氮 Nitrogen	G3	Brian Li	ASTM E1019/E1409
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-硫 Sulfur	G5	Brian Li	ASTM E1019
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-氢 Hydrogen	G2	Brian Li	ASTM E1447/SOP CHM-002
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-碳 Carbon	G1	Brian Li	ASTM E1019/E1941
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-氧 Oxygen	G4	Brian Li	ASTM E1019/E1409
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 原子发射光谱-火花/电弧 Spark/ Arc (OES)	F3	Brian Li	ASTM A751, E415, E1086, E3047, SOP CHM-004
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - a 层: 锻造 Alpha Case: Wrought	L8	Brian Li	SOP MET-010



材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 表面 状态（微观）Near Surface Examinations	LS	Brian Li	NA
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 覆膜 Replication	L13	Brian Li	ASTM E1351
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 合金 贫化 Alloy Depletion	L2	Brian Li	SOP MET-022
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 宏观 检查 Macro Examination	XL	Brian Li	ASTM E340, E381, GB/T 226, GB/T 1979
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 夹杂 物等级 Inclusion Rating	L12	Brian Li	ASTM E45(Method A,D), GB/T 10561, ISO 4967
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 金相 评估 Metallographic Evaluation	L0	Brian Li	NA
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 晶间 腐蚀/晶间氧化 IGA/IGO	L7	Brian Li	AMS 2772, AMS-H-6088, ASTM A262 (Practice A & E), ASMT G110, F2111
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 晶粒 度评估 Grain Size Measurement	L11	Brian Li	ASTM E112, E930, E1181, GB/T 6394, GB/T 24177, ISO 643
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 渗氮 Nitriding	L6	Brian Li	SOP MET-011
材料检测实验室 Materials Testing	金相和显微硬度 Metallography and Micro	L10	Brian Li	ASTM E1077, GB/T 224



Laboratories	Indentation Hardness - 脱碳/ 脱氮 Carburization/Decarburization			
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 显微 硬度 Microindentation Hardness	L1	Brian Li	ASTM E384, GB/T 4340.1
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 显微 硬度-表面层深度 (Surface-case depth)	L5	Brian Li	SAE J423, GB/T9450
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 氧化/ 腐蚀层 Oxidation/Corrosion Layers	L3	Brian Li	ASTM B487
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 铸模 反应 Casting (Mold) Reactions	L4	Brian Li	NA
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro indentation Hardness - a 层: 铸造 Alpha Case: Castings	L9	Brian Li	SOP MET-010
材料检测实验室 Materials Testing Laboratories	力学试样制备 Mechanical Testing Specimen Preparation - 标准试样加工 Standard Specimen Machining	Z	Brian Li	NA
材料检测实验室 Materials Testing Laboratories	力学试样制备 Mechanical Testing Specimen Preparation - 低应力磨削 Low Stress Grind	Z1	Brian Li	NA
材料检测实验室 Materials Testing Laboratories	力学试样制备 Mechanical Testing Specimen Preparation - 低应力磨削和抛光 Low Stress Grind and Polish	Z2	Brian Li	NA
材料检测实验室 Materials Testing Laboratories	力学试样制备 Mechanical Testing Specimen Preparation - 铸造样品 Casting Specimen	Z3	Brian Li	NA



材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 持久 Stress Rupture	C	Brian Li	ASTM E139/E292, GB/T 2039
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 冲击 Impact	N	Brian Li	ASTM E23, ISO148-1, GB/T 229
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 低周疲劳 Low Cycle Fatigue	Y	Brian Li	ASTM E606/E606M, GB/T 15248
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 断裂韧度 Fracture Toughness	P	Brian Li	ASTM E399
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 高温拉伸 Elevated Temperature Tensile	B	Brian Li	ASTM E21, ISO 6892-2, GB/T 228.2, EN 2002-002
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 高周疲劳 High Cycle Fatigue	O	Brian Li	ASTM E466, GB/T 3075
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 裂纹扩展 Crack Propagation Measurement	XE	Brian Li	ASTM E647
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 蠕变 Creep	XA	Brian Li	ASTM E139, GB/T 2039
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 室温拉伸 Room Temperature Tensile	A	Brian Li	ASTM E8/E8M, A370, ASTM B557, B557M, GB/T 228.1, ISO 6892-1, EN 2002-001
材料检测实验室 Materials Testing Laboratories	试样热处理 Specimen Heat Treating	XG	Brian Li	AMS 2750
材料检测实验室 Materials Testing Laboratories	硬度 Hardness - 布氏硬度 Brinell	M1	Brian Li	ASTM E10, ASTM A370, GB/T 231.1, ISO 6506-1
材料检测实验室 Materials Testing Laboratories	硬度 Hardness - 洛氏硬度 Rockwell	M2	Brian Li	ASTM E18, ASTM A370, GB/T 230.1, ISO 6508-1



备注 Remark:

中国航发商发具体采购控制件所涉及特种工艺的工艺规程应由中国航发商发批准。

The special process procedures shall be approved by AECC CAE for the Sourcing Control Parts of AECC CAE products.

兹证明中国航发商发对贵单位上述工艺进行了技术及质量方面的审核，并证明可满足上述规范的要求。本证书不构成对规范要求、检验、测试、记录保持、及/或合同订单条款的免除，也不保证产品一定被中国航发商发接收。当规范、工程图纸或订单中要求提交单独的零件或试样进行认可时，应按要求进行。中国航发商发可在任何时候对本证书所授予合格的相关设施进行检查，以确保可持续地满足中国航发商发的要求。

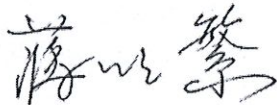
This is to certify that a review has been completed of your technical and quality system controls used for the above named process(es) and found them to be capable of satisfying the requirements of the above specifications. This certification does not in itself constitute a waiver of specification requirements as to inspection, testing, maintenance of records, and/or other provisions of the Purchaser Order/Sub Contract, nor does it guarantee the acceptance of articles produced for AECC CAE. Requirements for the submission and qualification of individual parts/samples or other items as contained in specifications, engineering drawings or Purchaser Order will be completed as outlined. Inspection of the facilities for which this certification is granted may be conducted at any time by AECC CAE to determine continued compliance with AECC CAE requirements.

本合格证书的有效期为：2022-05-31

除非被中国航发商发取消。

The certification shall expire at 2022-05-31, unless canceled by an AECC CAE.

主管供应商副总经理签字：



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