

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

证书编号 Certificate Number: Eb-215013-19-03

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: 麦锡金属处理技术服务(苏州)有限公司			发布日期 Issue Date: 2019-10-29	
地址 Address: 苏州江浦路 75 号			联系人 Contact person: 戴子岳	
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	戴青云	ASTM E1019/ASTM 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	戴青云	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	戴青云	ASTM E1447/CZP-032
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	戴青云	ASTM E1019/ASTM 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	戴青云	ASTM E1019/ASTM 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	戴青云	ASTM A751/ASTM E415/ASTM E1086/ASTM E1251/ASTM E1999
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - a 层:	L8	吴春勇	ASTM E407



	锻造 Alpha Case: Wrought			
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	吴春勇	ASTM E3 / ASTM E1077
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	吴春勇	ASTM E1077 /ASTM E3
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	吴春勇	ASTM E340 / ASTM E381
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	吴春勇	ASTM E112 / ASTM E3 / ASTM E45-a / ASTM E407
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	吴春勇	AMS 2772 /AMS-H-6088 /ASTM A262 / ASTM G110
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	吴春勇	ASTM E3
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and Micro Indentation Hardness - 脱碳/ 脱氮 Carburization/Decarburization	L10	吴春勇	N/A
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	吴春勇	ASTM E384 / ASTM E3 / ASTM E407
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	吴春勇	ASTM E1077 /ASTM E3 /SAE J423
材料检测实验室	金相和显微硬度	L3	吴春勇	N/A



Materials Testing Laboratories	Metallography and Micro Indentation Hardness - 氧化/腐蚀层 Oxidation/Corrosion Layers			
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	吴春勇	ASTM E407
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	马守伟	N/A
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	马守伟	N/A
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	马守伟	N/A
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 持久 Stress Rupture	C	马守伟	ASTM E292
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 冲击 Impact	N	马守伟	ASTM E23 / ASTM A370 / ISO 148-1
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	马守伟	ASTM E21
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	马守伟	ASTM E466
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 蠕变 Creep	XA	马守伟	ASTM E139
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	马守伟	ASTM A370/ASTM B557 /ASTM E8/E8M
材料检测实验室 Materials Testing Laboratories	试样热处理 Specimen Heat Treating	XG	马守伟	AMS 2750
材料检测实验室	应力腐蚀 Stress Corrosion	Q1	吴春勇	N/A



Materials Testing Laboratories				
材料检测实验室 Materials Testing Laboratories	硬度 Hardness - 布氏硬度 Brinell	M1	吴春勇	ASTM E10 / ASTM A370
材料检测实验室 Materials Testing Laboratories	硬度 Hardness - 洛氏硬度 Rockwell	M2	吴春勇	ASTM E18 / ASTM A370

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：2020-11-30

除非被中国航发商发取消。

The certification shall expire at 2020-11-30, unless canceled by an AECC CAE.

主管供应商副总经理签字：



地址 Address: 上海市闵行区莲花南路 3998 号  
No.3998, South Lianhua Road, Minhang District,  
Shanghai

批准设备清单 Approved Equipment List



中国航发商用航空发动机有限责任公司  
AECC COMMERCIAL AIRCRAFT ENGINE CO.,LTD.

工艺名称	子项目	设备位置	设备名称	设备型号	设备编号	备注
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-氮 Nitrogen	Chemical Lab	O/N/H Analyzer	Eltra ONH 2000	CSDR#3	
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-硫 Sulfur	Chemical Lab	C/S Analyzer	Eltra CS800	CSDR#2	
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-氢 Hydrogen	Chemical Lab	O/N/H Analyzer	Eltra ONH 2000	CSDR#3	
材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-碳 Carbon	Chemical Lab	C/S Analyzer	Eltra CS800	CSDR#2	



材料检测实验室 Materials Testing Laboratories	化学分析 Chemical Analysis - 燃烧或熔融法-氧 Oxygen	Chemical Lab	O/N/H Analyzer	Eltra ONH 2000	CSDR#3	
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)	Chemical Lab	OES Analyzer	Spectro LAB LAVM11	CSDR#1	
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	Metallography Lab	Microscope	Nikon MA 100, Carl Zeiss Axio Ob	CSDR#6,174	
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	Metallography Lab	Microscope	Nikon MA 100, Carl Zeiss Axio Ob	CSDR#6,174	
材料检测实验室 Materials Testing Laboratories	金相和显微硬度 Metallography and	Metallography Lab	Microscope	Nikon MA 100, Carl	CSDR#6,174	



室 Material s Testing Laborat ories	Micro Indentation Hardness - 合金贫 化 Alloy Depletion			Zeiss Axio Ob		
材料检 测实验 室 Material s Testing Laborat ories	金相和显微硬度 Metallography and Micro Indentation Hardness - 宏观检 查 Macro Examination	Metallogr aphy Lab	Microsco pe	Nikon MA 100,Carl Zeiss Axio Ob	CSDR#6,174	
材料检 测实验 室 Material s Testing Laborat ories	金相和显微硬度 Metallography and Micro Indentation Hardness - 金相评 估 Metallographic Evaluation	Metallogr aphy Lab	Microsco pe	Nikon MA 100,Carl Zeiss Axio Ob	CSDR#6,174	
材料检 测实验 室 Material s Testing Laborat ories	金相和显微硬度 Metallography and Micro Indentation Hardness - 晶间腐 蚀/晶间氧化 IGA/IGO	Metallogr aphy Lab	Microsco pe	Nikon MA 100,Carl Zeiss Axio Ob	CSDR#6,174	
材料检 测实验 室 Material s Testing Laborat ories	金相和显微硬度 Metallography and Micro Indentation Hardness - 渗氮	Metallogr aphy Lab	Microsco pe	Nikon MA 100,Carl Zeiss Axio Ob	CSDR#6,174	



s Testing Laborat ories	Nitriding					
材料检 测实验 室 Material s Testing Laborat ories	金相和显微硬度 Metallography and Micro Indentation Hardness - 脱碳/脱 氮 Carburization/Decar burization	Metallogr aphy Lab	Microsco pe	Nikon MA 100,Carl Zeiss Axio Ob	CSDR#6,174	
材料检 测实验 室 Material s Testing Laborat ories	金相和显微硬度 Metallography and Micro Indentation Hardness - 显微硬 度 Microindentation Hardness	Metallogr aphy Lab	Microhar dness Tester	Wilson Tukon 1102	CSDR#8	
材料检 测实验 室 Material s Testing Laborat ories	金相和显微硬度 Metallography and Micro Indentation Hardness - 显微硬 度-表面层深度 (Surface-case depth)	Metallogr aphy Lab	Microhar dness Tester	Wilson Tukon 1102	CSDR#8	
材料检 测实验 室 Material s Testing Laborat ories	金相和显微硬度 Metallography and Micro Indentation Hardness - 氧化/腐 蚀层 Oxidation/Corrosion	Metallogr aphy Lab	Microsco pe	Nikon MA 100,Carl Zeiss Axio Ob	CSDR#6,174	





Laboratories	Layers					
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	Metallography Lab	Microscope	Nikon MA 100, Carl Zeiss Axio Ob	CSDR#6,174	
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	Machining Shop	HAAS Lathe TL-1, Ruiyuan Lathe	TL-1, CK6 136	CSDR# 137, 138	
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	Machining Shop	ST Cylindrical Grinder	G25P50C NC	CSDR#142	
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	Machining Shop	HAAS Lathe TL-1, Ruiyuan Lathe	TL-1, CK6 136	CSDR# 137, 138	



材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 持久 Stress Rupture	Mechanical Lab	Creep/SR tester	ATS 2320,IMR	CSDR#15,16,18~32,167,175~198,204,205,269
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing - 冲击 Impact	Mechanical Lab	Charpy	JBW250,JBW 500,JBW-3001	CSDR#12,13,399
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	Mechanical Lab	RTT/ETT Tensile tester	Tinius Olsen H300KU, Tinius Olsen 150ST	CSDR#11,202
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	Mechanical Lab	万能试验机	Instron 8801	CSDR#261, 262, 000, 281, 283, 279
材料检测实验室 Materials Testing Laboratories	力学性能测试 Mechanical Testing -	Mechanical Lab	Creep/SR tester	ATS 2320,IMR	CSDR#15,16,18~32,167,175~198,204,205,269



室 Material s Testing Laborat ories	蠕变 Creep					
材料检 测实验 室 Material s Testing Laborat ories	力学性能测试 Mechanical Testing - 室温拉伸 Room Temperature Tensile	Mechanic al Lab	RTT/ETT Tensile tester	Tinius Olsen H300KU, Tinius Olsen 150ST	CSDR#11,202	
材料检 测实验 室 Material s Testing Laborat ories	试样热处理 Specimen Heat Treating	Machinin g Shop	Knight Furnace	Knight	CSDR#133	
材料检 测实验 室 Material s Testing Laborat ories	应力腐蚀 Stress Corrosion	Metallogr aphy Lab	Microsco pe	Nikon MA 100,Carl Zeiss Axio Ob	CSDR#6,174	
材料检 测实验 室 Material	硬度 Hardness - 布 氏硬度 Brinell	Metallogr aphy Lab	Brinell Hardness Tester	MHB 3000	CSDR#9	



s Testing Laborat ories						
材料检 测实验 室 Material s Testing Laborat ories	硬度 Hardness - 洛 氏硬度 Rockwell	Metallogr aphy Lab	Rockwell Hardness Tester	Wilson Rockwell R574-00-0 496	CSDR#7	

