



中航工业商发 ACAE

工艺审核合格证书 Process Audit Certificate

正常批准 Formal Approval

有条件批准 Conditional Approval

供应商名称 Supplier Name:

IMR Test Labs

发布日期 Issue Date:

2015-09-01

地址 Address:

131 Woodsedge Drive, Lansing, NY 14882, United States

联系人 Contact person:

Deena Crossmore

工艺 Process	子项目 Sub-process	供应商技术代表 Supplier Tech Representative	适用的标准 Specification Approvals
金属材料测试实验室 Metallic Materials Testing Laboratory	测试代码 Test Code: F2, F3, G1, G2, G3, G4, G5, S, A, B, N, O, P, XN, Y, L, L1, L10, L2, L3, L5, L6, L7, L8, L9, LS, XL, M1, M2, Q, Q1, Z, Z3, Z4, XG		

备注 Remark:

兹证明中航工业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航工业商发接收。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。中航工业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航工业商发的要求。

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 ACAE. 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 ACAE to determine continued compliance with ACAE requirements.

本合格证书的有效期为: 2016-08-31, 除非被中航工业商发取消。

The certification shall expire at 2016-08-31, unless canceled by ACAE.

签字 Signature:

地址 Address:

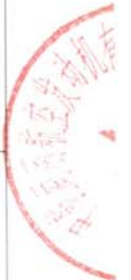
职位 Title: 技术负责人 Technical Director

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部门 Department: 材料工艺部 Materials Sciences and Manufacturing Processes

表单编号: DP0609-04

版次: D





ACAE 认可的检测项目明细

ACAE 金属材料实验室测试项目和代码			认可 IMR 实验室检测的项目明细	
检测项目	代码	子项目	认可项目	标准号
Chemical Testing 化学元素分析	F2	Inductively Coupled Plasma (ICP) 电感耦合等离子体	✓	ASTM E2594 ASTM E2371 ASTM E34
	F3	Spark/Arc (OES) 火花/电弧	✓	ASTM A751、ASTM E415 ASTM E1086、ASTM E1251、ASTM E1999
	G1	Carbon 碳	✓	ASTM E1019 ASTM E1941
	G2	Hydrogen 氢	✓	ASTM E1447
	G3	Nitrogen 氮	✓	ASTM E1019 ASTM E1409
	G4	Oxygen 氧	✓	ASTM E1019 ASTM E1409
	G5	Sulfur 硫	✓	ASTM E1019
	S	X-Ray Fluorescence(Ni Base/Ti Base/Al Base/Fe Base) X 射线荧光 (镍基合金/钛合金/铝合金/铁合金)	✓	/
Mechanical Testing 力学性能	A	Room Temperature Tensile 室温拉伸	✓	ASTM A370, B557 ASTM E8/E8M
	B	Elevated Temperature Tensile 高温拉伸	✓	ASTM E21
	N	Impact 冲击	✓	ASTM E23, A370
	O	High Cycle Fatigue 高周疲劳	✓	ASTM E466
	P	Fracture Toughness 断裂韧度	✓	ASTM E399
	XN	Bend Testing 弯曲	✓	ASTM E290
	Y	Low Cycle Fatigue 低周疲劳	✓	ASTM E606





ACAE 金属材料实验室测试项目和代码			认可 IMR 实验室检测的项目明细	
检测项目	代码	子项目	认可项目	标准号
Metallography and Microhardness 金相和显微硬度	L	Metallography(General) 金相（常规）	✓	ASTM E112、ASTM E3 ASTM E45-a、ASTM E407
	L1	Microhardness (Interior) 显微硬度（内部）	✓	ASTM E384 ASTM E3 ASTM E407
	L10	Other（渗碳 carburization） 其他	✓	/
	L2	Alloy Depletion 合金贫化	✓	ASTM E1077 ASTM E3
	L3	Oxidation 氧化	✓	/
	L5	Microhardness (Surface) 显微硬度（表面）	✓	ASTM E1077 ASTM E3
	L6	Diffusion Coatings 扩散层	✓	ASTM E3
	L7	IGA/IGO 晶间腐蚀/晶间氧化	✓	AMS 2772; AMS-H-6088; ASTM A262, ASTM G110
	L8	Alpha Case: Wrought α 层: 锻造	✓	ASTM E407
	L9	Alpha Case: Castings α 层: 铸造	✓	ASTM E407
	XL	Metallography (Macro) 金相（宏观）	✓	ASTM E340 ASTM E381
	LS	Near Surface Examinations 表面状态（微观）	✓	ASTM E3 ASTM E1077
Hardness 硬度	M1	Hardness (Brinell) 布氏硬度	✓	ASTM E10, A370
	M2	Hardness (Rockwell) 洛氏硬度	✓	ASTM E18, A370
Corrosion 腐蚀	Q	Corrosion (General) 腐蚀（常规）	✓	/
	Q1	Stress Corrosion 应力腐蚀	✓	/
Mechanical Test Specimen	Z	Specimen Machining with 100% machined or ground surfaces	✓	N/A





ACAE 金属材料实验室测试项目和代码			认可 IMR 实验室检测的项目明细	
检测项目	代码	子项目	认可项目	标准号
Preparation 力学试样加工		要求 100%机加工或磨削表面的 试样加工		
	Z3	Cast Specimens 铸造样品	✓	N/A
	Z4	Special Preparations 特殊目的的样品	✓	N/A
Heat Treating of Specimens 试样热处理	XG	Heat Treating of Specimens 试样热处理	✓	AMS2750

