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TESTING CERT # 2772.01

PEM Lab Accreditation Testing Scope
宾科实验室试验范围

No. 序号	Test Items 试验项目	Test Equipment 试验设备	Applicable Specification/ Standards 试验方法
1	Rockwell Hardness(A,C,B,15N,30N,45N) 洛氏硬度 (A, C,B,15N,30N,45N)	Rockwell Hardness Tester 洛氏硬度计	ASTM E18
2	Micro-hardness (Vickers) 显微硬度 (HV0.2,HV0.3,HV0.5,HV1)	Micro-hardness Tester 显微硬度计	ASTM E384
3	External threads tensile(Wedge / Axial) 螺栓类轴向/斜载抗拉力强度	Tensile Testing Machine 拉力试验机	ISO898-1; SAE J429; GM500M ASTM F606; ASTM F606M
4	External threads proof load 螺栓类保证载荷	Tensile Testing Machine 拉力试验机 Super Micrometer 测长仪	ISO898-1; SAE J429; GM500M ASTM F606; ASTM F606M
5	Torsional Strength 螺栓类抗扭强度	Vertical Torque-Tension Tester 多功能紧固分析系统	ISO 898-7; SAE J1237, J81
6	Coefficient Of Friction 螺纹摩擦系数	Vertical Torque-Tension Tester 多功能紧固分析系统	ISO 16047; GMW3044; 3359; 4707; 4700
7	External threads torque-tension 螺栓连接扭矩与轴力关系测试	Vertical Torque-Tension Tester 多功能紧固分析系统	ISO 16047; GMW3044; 3359; 4707; 4700
8	Surface discontinuities 表面不连续性	Microscope 显微镜	ISO 6157-3 (3.6 lap on the thread); GM 6102 (3.27 lap in screw thread); PF-5188(S) 2.1.7 (lap in screw threads)
9	Decarburization 脱碳层深度	Microscope 显微镜 Micro-hardness Tester 显微硬度计	ISO 898-1; GM 500M; SAE J121, J121M; GM 6104M
10	Effective Case depth 有效渗碳层深度	Micro-hardness Tester 显微硬度计	SAE J423
11	Grain flow 金属流线	Macro-scope 宏观显微镜	SAE / USCAR - 8
12	Tensile Test for Safety Belt Anchor Bolts 汽车用安全带 45 度斜拉试验	Tensile Testing Machine 拉力试验机	GM 9639P
13	Tensile Testing of Metallic Material (Tensile Strength/Elongation/Reduction of Area/Yield Strength) 金属材料试验(抗拉/延伸/断面收缩 率/屈服)	Tensile Testing Machine 拉力试验机	ASTM E8/E8M; ISO 6892
14	Plating thickness (Zn-Fe, Ni/Cu-Fe, Sn/Cu-Fe) 膜厚测试	Coating Measurement Instruments X-Ray 膜厚仪	ASTM B568 (X-Ray); ISO 3497
15	Coating Thickness 涂层测试	CMI 600 涂层测试仪	ASTM B499

16	Neutral salt spray 中性盐雾试验	Salt Spray Tester 盐雾试验机	ASTM B117; ISO 9227; SAE/USCAR-1
17	De-embrittlement verification (External threads) 氢脆验证试验	Vertical Torque-Tension Tester 多功能紧固分析系统	SAE / USCAR - 7
18	Chemical analysis via spectrometer Materials applicable: (Carbon and low alloy steel, Stainless Steel and Aluminum Alloys) 光谱仪金属材料成分分析 (低碳钢 /合金钢/不锈钢/铝合金	Spectrometer 直读光谱仪	ASTM E415; GB/T 4336, 11170, 7999