

检测报告 TEST REPORT

报告编号 (No.) :UTS25110028M04 报告日期 (Report Date) : 2025/11/10

委托单位/Client : 富钛金属科技 (昆山) 有限公司
Fulltech industry (Kunshan) Co., Ltd
地址/Address : 江苏省昆山市玉山镇晨丰东路 159 号
No.159 Chenfeng East Road, Yushan Town, Kunshan City, Jiangsu
Province

以下样品信息由申请人提供及确认:

The following sample(s) was/were submitted and identified on behalf of the client as:

样品名称/Sample Name : 656228700A 扭矩管/656228700A Torque tube
批 号/Lot No. : 2025-10
材 料/Material : 锌合金 (5#ZN) /Zinc alloy (5#ZN)
接样日期/Receiving Date : 2025/11/04
检测项目/Test Item : ELV 4 项/ELV 4 items
结 论/Conclusion : 申请人所提供的样品的测试结果符合 GB/T 30512-2014《汽车禁用物质要求》。/Based on the analysis of the submitted sample, the results meet the requirements of GB/T 30512-2014 Requirements for prohibited substances on automobiles.



签 发 樊建红
Approved by 樊建红 授权签字人

审 核 马林
Reviewed by 马林

编 制 闵丹丹
Prepared by 闵丹丹

检 测 报 告
TEST REPORT

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1、测试标准/Test Standard(s)

QC/T 941-2013; QC/T 942-2021; QC/T 943-2013

2、测试日期/Test Date(s)

2025/11/05-2025/11/06

3、测试设备/Test Equipment(s)

设备名称 Test Equipment	设备编号 Equipment Number	校准有效期 Calibration Period of Validity
等离子体发射光谱仪 ICP-OES	M-1-584	2025/12/14
紫外可见分光光度计 UV-vis	M-1-622	2025/12/12

4、测试结果/Test Result(s)

检测项目 Test Items	检测方法 Methods	方法检测限 MDL (mg/kg)	检测结果 Results (mg/kg)	限值* Limits (mg/kg)
铅/Pb	M1	2	N.D.	≤1000
镉/Cd		2	N.D.	≤100
汞/Hg	M2	2	N.D.	≤1000
六价铬/Cr (VI)	M3	---	阴性 Negative	---

注意/Remark : *报告中述及的限值参考 GB/T 30512-2014 《汽车禁用物质要求》。/ The Limited value is refer to GB/T 30512-2014 Requirements for prohibited substances on automobiles.

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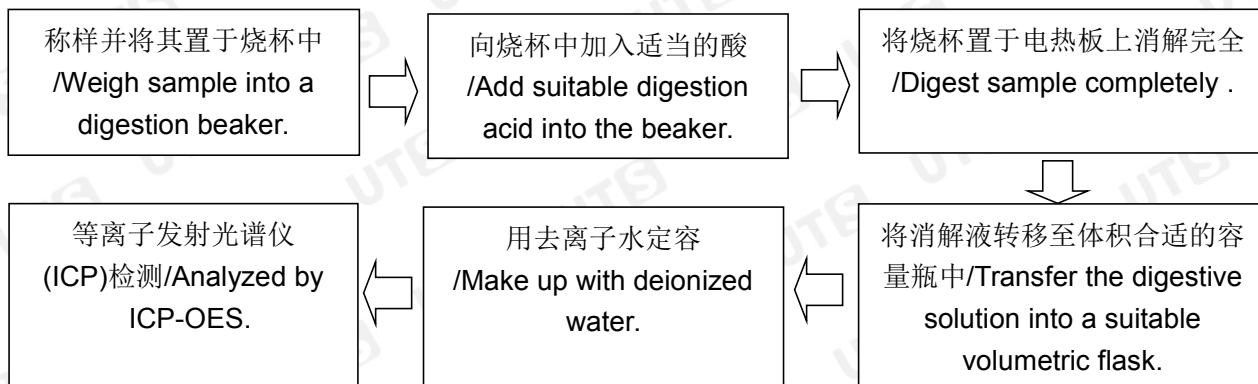
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- 备注/Note:
- 1) N.D. = 未检出, 小于方法检测限/Not detected, less than MDL.
 - 2) “---” = 未明确规定/Not Regulated.
 - 3) M1: 参考 QC/T 943-2013, 采用电感耦合等离子体发射光谱仪进行测定。
With reference to QC/T 943-2013, analysis was performed by ICP-OES.
 - 4) M2: 参考 QC/T 941-2013, 采用电感耦合等离子体发射光谱仪进行测定。
With reference to QC/T 941-2013, analysis was performed by ICP-OES.
 - 5) M3: 参考 QC/T 942-2021/With reference to QC/T 942-2021,
点测试法: 阴性=样品中未检测到六价铬, 阳性=样品中检测到六价铬;
(当点测试结果为无法确定时, 将采用沸水萃取法来检验结果)
沸水萃取法: 阴性=样品中未检测到六价铬; 阳性=样品中检测到六价铬,
50cm² 表面积的被测试样品在沸水萃取溶液中六价铬的浓度等于或大于 0.1µg/cm². Spot
test: Negative=Not detected Cr(VI) in plating; Positive=Detected Cr(VI) in plating.
(If you are not sure about the result of the Spot test, use the boiling water extraction
method to confirm the result)
Boiling water extraction method:
Negative= Not detected Cr(VI) in plating; Positive=The Cr(VI) concentration detected is
equal to or greater than 0.1µg/cm² with a sample surface area of 50cm² used.

测试部位描述/TEST PART DESCRIPTION: 金属/Metal

检测流程图/FLOW CHART

1. Pb、Cd 检测/Test for Pb, Cd Content



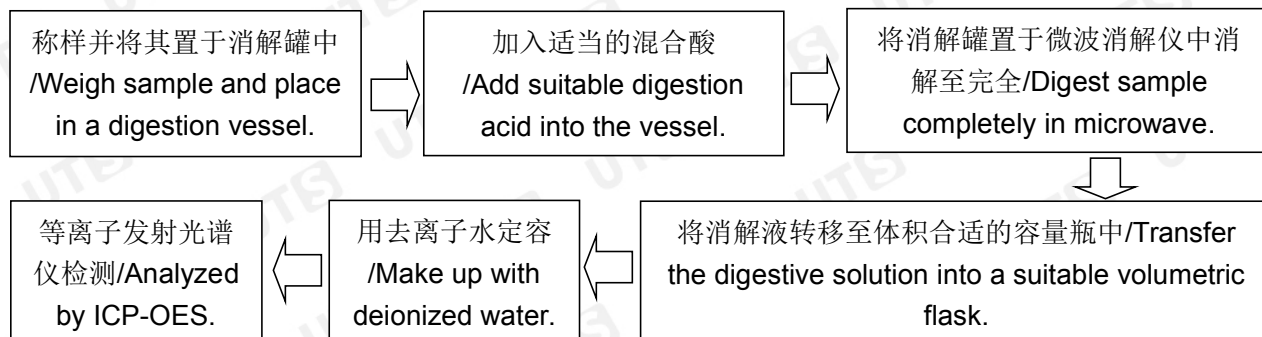
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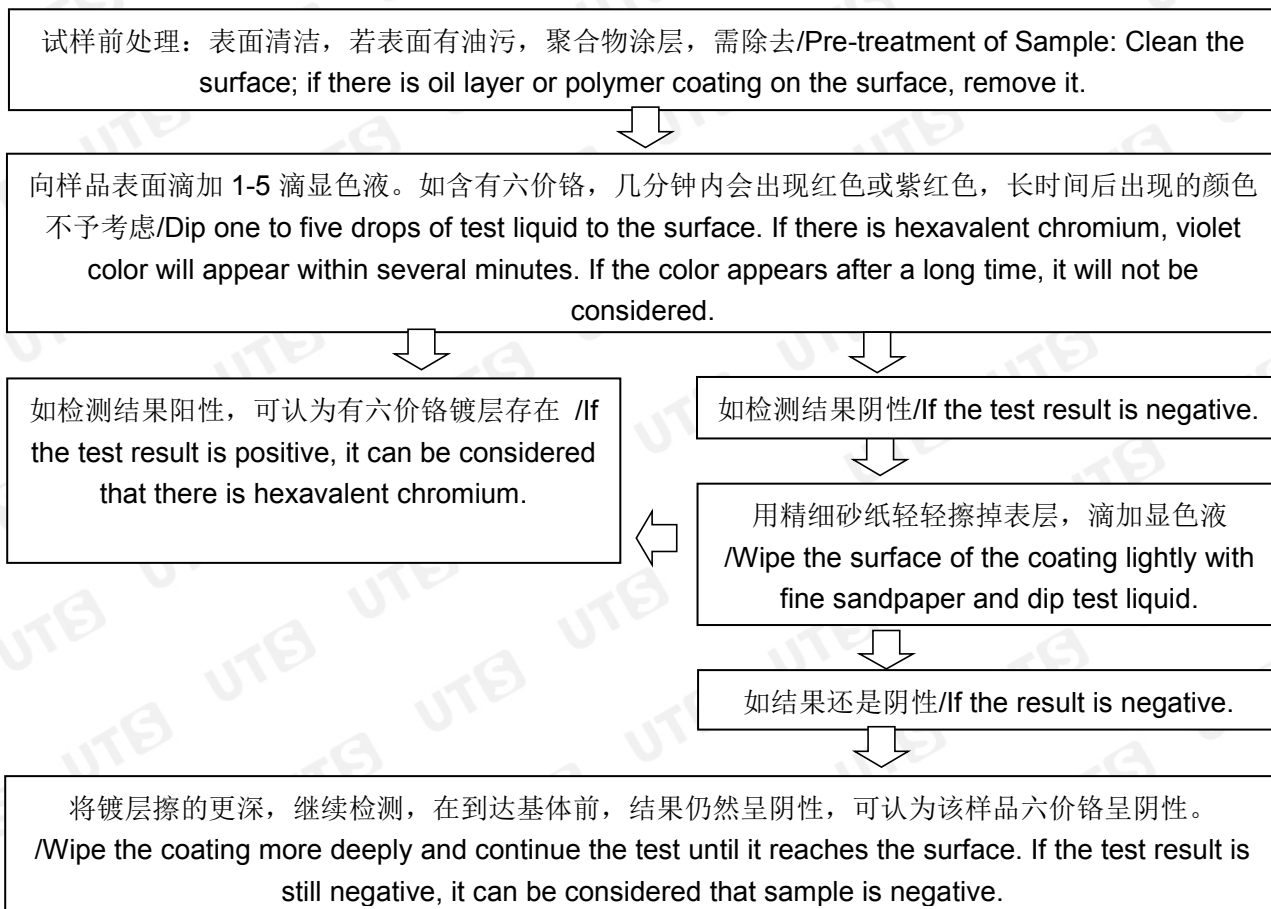
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2. Hg 检测/Test for Hg Content



3. 六价铬 Cr (VI) 检测/Test for Chromium (VI) Content

a) 点滴试验法/Point test method:



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b) 沸水萃取法/Boiling water extraction method:

取样品于装有适量沸水烧杯中继续煮沸 10 分钟/Make sample to glass beaker and continue to boil the water for 10 minutes.

取下烧杯，拿出样品并冷却至室温/Remove the beaker,take out sample and cool it to room temperature.

定容，如有乳状或沉淀，先过滤/Add water to mask; filtrate emulsion or sedimentation first.

取适当体积的混合液于另一烧杯中，向烧杯中加入正磷酸和显色液，定容，用分光光度计进行比色测定。
/Transfer an appropriate portion of mixture to another beaker, add phosphoric acid solution and indicator to the beaker and make up. Measure the absorbance at 540nm by UV-Vis.

5、样品照片/Sample photo(s)



.....报告结束/End of Report.....

本报告中结果仅作为科研、教学或内部质量控制之用。

Test results in this report are only used for scientific research, teaching and internal quality control.