

TEST REPORT

报告编号(No.):UTS25050065M35 报告日期(Report Date): 2025/05/16

浦项世亚线材 (南通) 有限公司 委托单位/Client

POS-SeAH Steel Wire (Nantong) Co., Ltd.

江苏省南通市经济开发区江海路 92 号 址/Address

No.92 Jianghai Road, Nantong Economic&Technology Development

Zone ,Jiangsu

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 CHQ WIRE 冷镦用线材/CHQ Wire Cold Forging Wire

种/Steel Type 16MnCr5 钢

接样日期/Receiving Date 2025/05/09

禁用物质 4 项/Prohibited substances 4 items 检测项目/Test Item

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.



Reviewed by

Prepared by

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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)

2025/05/13-2025/05/14

3、测试设备/Test Equipment(s)

设备名称	设备编号	校准有效期		
Test Equipment	Equipment Number	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)

LA MILET D	LA NEU 2- V-L	方法检测限	检测结果	限值*	
检测项目 Test Items	检测方法 Methods	MDL (mg/kg)	Results	Limits	
 铅/Pb	6	(mg/kg) 2	(mg/kg) N.D.	(mg/kg) 1000	
镉/Cd	M1	2	N.D.	100	
汞/Hg	M2	2	N.D.	1000	
六价铬/Cr (VI)	M3	18.	阴性 Negative	TIP	

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 Limits are refer to GB/T 30512-2014 Requirements for prohibited substances on automobiles.

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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)

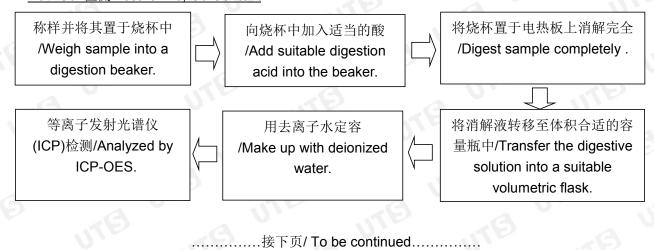
Boiling water extraction method:

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



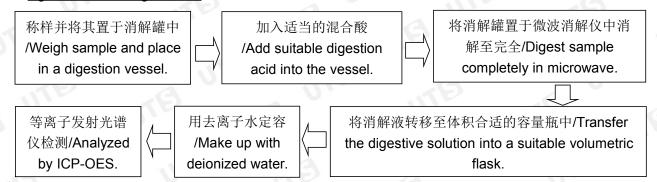
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2. Hg 检测/Test for Hg Content



- 3. 六价铬 Cr(VI) 检测/Test for Chromium(VI) Content
 - a) 点滴试验法/Point test method:

试样前处理:表面清洁,若表面有油污,聚合物涂层,需除去/Pre-treatment of Sample: Clean the surface; if there is oil layer or polymer coating on the surface, remove it.

向样品表面滴加 1-5 滴显色液。如含有六价铬,几分钟内会出现红色或紫红色,长时间后出现的颜色不予考虑/Dip one to five drops of test liquid to the surface. If there is hexavalent chromium, violet color will appear within several minutes. If the color appears after a long time, it will not be considered.

如检测结果阳性,可认为有六价铬镀层存在 /If the test result is positive, it can be considered that there is hexavalent chromium.

如检测结果阴性/If the test result is negative.

用精细砂纸轻轻擦掉表层,滴加显色液
/Wipe the surface of the coating lightly with fine sandpaper and dip test liquid.

如结果还是阴性/If the result is negative.

将镀层擦的更深,继续检测,在到达基体前,结果仍然呈阴性,可认为该样品六价铬呈阴性。
/Wipe the coating more deeply and continue the test until it reaches the surface. If the test result is still negative, it can be considered that sample is negative.

......接下页/ To be continued......

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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.