



中国认可  
国际互认  
检测  
TESTING  
CNAS L1002



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No: 22F369

# 试验报告

## Test Report

样品名称	H6 调温式悬架座椅
Name of goods	H6 Cliamte Suspension Seat
试验项目	外部火烧试验
Test item	External fire (bonfire) test
委托单位	北京光华荣昌汽车部件有限公司
Applicant	Beijing Goldrare Automobile Parts Co., Ltd

南京理工大学化学材料测试中心  
Chemicals Testing Center of  
Nanjing University of Science and Technology

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18651815510

# 试验报告

## Test Report

Client: Beijing Goldrare Automobile Parts Co., Ltd	Date: 2022-09-01
	Test criteria: UN Recommendations on the transport of dangerous goods – manual of tests and criteria, seventh revised edition
	Test site: Tangshan test site

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### 1. Purpose

#### 目的

Chemicals Testing Center of Nanjing University of Science and Technology has performed a full scale series 6(c)-test, in full compliance with the Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Seventh revised edition, and GB/T 14372-2013 Transport of dangerous goods—Test method of acceptance and classification for explosives. The purpose of the test is to show conformity with transport class 9 under UN-number 3268 for transport of dangerous goods according to special provisions and packaging instructions



stated in the transport regulations for dangerous goods.

This report shall also be considered as a valid proof of a performed test according to manual of tests and criteria, seventh revised edition. The below stated product and its packaging have been tested under conditions representing a serial product in combination with a certified transport packaging, made available for transport on Roads, Railways, Air and Sea.

南京理工大学化学材料测试中心完全按照联合国《ST/SG/AC.10/11/Rev7 危险货物运输的建议书 试验和标准手册》第七修订版及GB/T 14372-2013《危险货物运输 爆炸品的认可和分项试验方法》的相关要求，开展试验系列6类型c的试验。该试验的目的是验证样品是否符合9类危险品中的UN3268危险品运输规定中的特殊条款和包装细则。

该试验报告可认定样品根据《关于危险货物运输的建议书 试验和标准手册》第七修订版的要求，进行了相关的试验。以下的样品及其包装经试验验证可进行公路、铁路、航空及海洋运输。

## 2. Test Conditions

### 试验条件

#### 2.1 Test site: Tangshan test site

试验地点：汤山试验场

#### 2.2 Participating personal

参与人员

Manager of Tangshan test site (Safety management)

汤山试验场管理人员(安全管理)

#### 2.3 Weather conditions: Sunny

天气：晴

Wind: 2.7 m/s, Temperature: 30°C

风速：2.7 m/s, 温度：30°C

## 3. Instruction of product and packaging

### 样品和包装介绍

### 3.1 Product

#### 样品

The type of inflator for H6 Climte Suspension Seat is MGG, which basically includes 650mg of charge.

H6 调温式悬架座椅使用的气体发生器型号为 MGG，每个气体发生器装药量为 650mg。

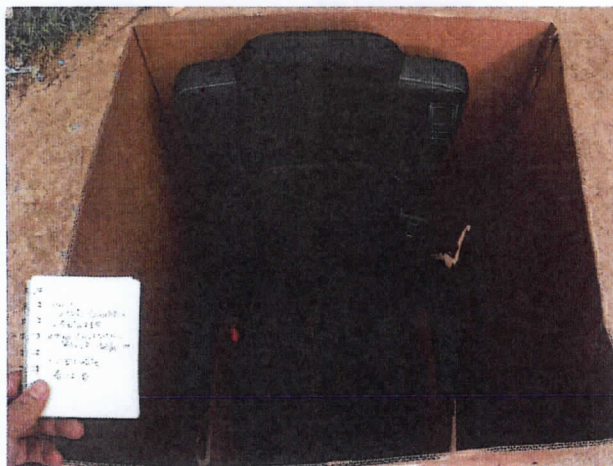


### 3.2 Packaging

#### 包装

One sample is set in a carton. The size of the carton is 858mm×793mm×1247mm.

1 个样品装入尺寸为 858mm×793mm×1247mm 的纸箱内。



## 4. Execution

### 试验过程

#### 4.1 Arrangement

##### 样品摆放

The test objects (totally 1 sample) were placed on a metallic grid 1.0m above the ground. The wooden extend beyond the samples 1.0m in every horizontal direction.

将样品(共 1 个样品)放在距离地面 1.0 米的金属格栅上。风干的木架放在金属格栅下，木架每边超出金属格栅约 1.0 米。



The test was recorded with 2 (two) video cameras from a distance of 10 and 20 meters.

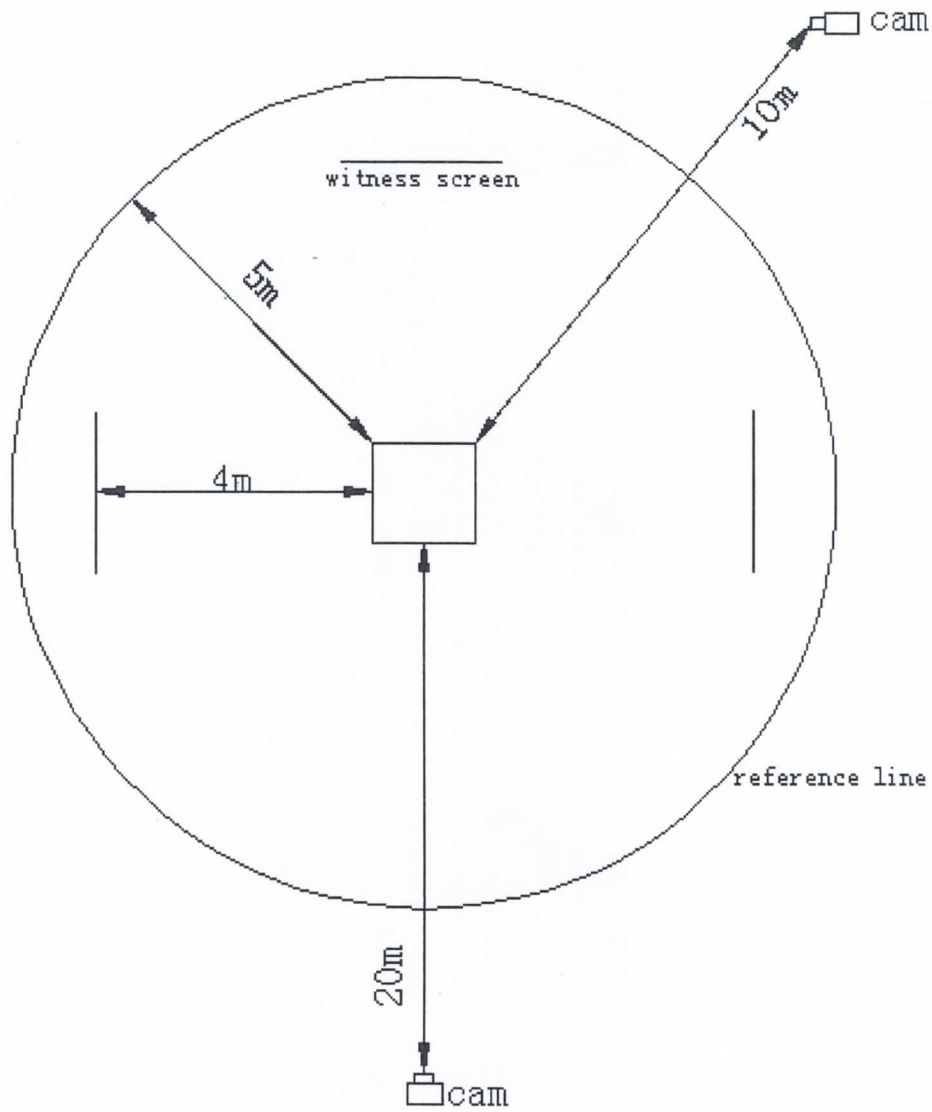
在 10 米和 20 米处，有两台录像机全程记录试验情况。

#### 4.2 Witness screens

##### 验证板

The aluminum sheets, 2000mm×2000mm×2mm, are erected in each of three quadrants at a distance of 4.0m from the edge of the packages except the downwind quadrant. The sheets are placed so that the centers are level with the centre of the packages because the centre of the packages is more than 1.0m above the ground.

在样品四周的三面距离其边缘 4.0 米处竖立垂直的验证板，验证板为 2000mm×2000mm×2mm 的铝板，下风面不用屏障。由于样品中心高出地面超过 1.0 米，验证板中心与包件中心平齐。



### 4.3 Ignition

点火

Put wood-shavings, mixed coal oil, in the wooden stand and then ignite the fuel.

将与煤油混合后的刨花放入木堆中。点燃燃料。



## 5. Results

### 结果

#### 5.1 Time intervals

试验各阶段情况

Reaction phase/反应阶段	Reaction time in minutes/反应时间段
Ignition/点火	33 seconds/33 秒
First reaction /第一响	9 minutes and 16 seconds/9 分 16 秒
Last reaction /最后一响	9 minutes and 16 seconds/9 分 16 秒



#### 5.2 Observations / projections

试验现场观测

No fragmentation of inflator.

气体发生器没有出现解体。

No metallic projections with a kinetic energy exceeding 8J were detected during the test.

试验过程中没有出现动能超过 8J 的金属进射物。

编号 Item	金属进射物情况 metallic projections	质量(g) Mass(g)	标准中进射物对应的距离(m) Distance according to criteria(m)		实际距离(m) Actual distance(m)	能量(J) Energy(J)
			8J	20J		
1	金属部件均在燃烧架 4.0m 范围内/All metallic projections are within 4.0 meters of the metallic grid					<8

#### 5.3 Sonic bangs

声响

Sonic bangs from internal product activations were noted during the whole test.

试验过程中产生的声响全程记录。

## 6. Conclusions/Judgement

### 结论

整体爆炸/mass explosion	否/No
验证板有穿孔/perforation of any witness screens	否/No
有金属进射物动能超过 20J/ metallic projections with a kinetic energy exceeding 20J	否/No
有火球或火舌伸到验证板之外/a fire ball or jet of flame extending beyond the three witness screen	否/No
燃烧物被抛射 15 米以外/fire projection beyond 15m	否/No
产品燃烧时间小于 35 秒/100 千克净爆炸品质量。或者, 在距离包件或无包装物品边缘 15 米处, 燃烧产品的辐射度比火烧火焰的辐射度大 4 千瓦/米 <sup>2</sup> 以上, 测量时间 5 秒钟。/length of burning time less than 35s per 100kg NEM or additional heating to wooden fire more than 4KW/m <sup>2</sup> in 15m distance for at least 5s.	——
火球或火舌延伸到火烧火焰 1 米以外/a fire ball or jet of flame extending beyond flames of fire	否/No
燃烧物被抛射到 5 米以外/ fire projection beyond 5m	否/No
验证板有大于 4 毫米深的凹痕/indentation in a witness screen more than 4 mm deep	否/No
有金属进射物动能超过 8J/ metallic projections with a kinetic energy exceeding J	否/No
燃烧时间小于 330 秒/100 千克净爆炸品质量/length of burning time less than 330s per 100kg NEM	——
发生需要把产品划分到 1.1 到 1.4 项配装组 S 以外的配装组的情况/occurs an effect which would require the product to be assigned to classes 1.1 to 1.4 other than S	否/No
出现可能明显妨碍在紧邻处救火或其他应急行动的热效应/occurs a thermal or blast effect which would hinder fire fighting or other emergency response efforts in the immediate vicinity	否/No

Based on the results of this test, according to the UN 《Recommendations on the Transport of Dangerous Goods Model Regulations》 20th revised edition and reference to chapter 3.3.1 Special Provision 280 and 289, Climate Suspension Seat LH/H6 is not subject to UN 《Recommendations on the Transport of Dangerous Goods Model Regulations》. Accordingly, **Climate Suspension Seat LH/H6 is NOT Restricted Goods.**

基于试验结果, 根据联合国《关于危险货物运输的建议书 规章范本》第二十修订版中 3.3.1 章节, 特殊条款 280 和 289, 驾驶员调温式悬架座椅/H6 可不受规章范本的限制, 可归为非限制性货物。

### 7. Appendices

CD/DVD (Video in WMV-format)

Approver:  
批准:



Checker:

审核:

Handwritten signature of the checker.

Tester:

主检:

Handwritten signature of the tester.

Date:

日期: 2022-09-17

