

检测报告

SL52525368394301TX

日期: 2025年11月26日 第1页共16页

东台臻博科技有限公司  
江苏省东台市新街镇特种海洋产业装备园内(丁震经营性用房内)

该报告代替由 **SGS** (上海) 发布的检测报告编号 **SL52525342993901TX**, 日期: 2025-11-17, 原报告作废更新客户信息。

下列样品由客户提供及确认: -

样品描述	(A)化学防护服 RHF-I、 RHF-II (B)接缝-防护服与防护服 (C)靴子与防护服间连接 (D)大身面料 (E)手套与防护服间连接
样品尺码	M L
款号	RHF-I (RHF-1M 通用款)、 RHF-II (RHF-1L 防护款)
成份	(A)橡 塑 CR
颜色	(A)橙黄色 (B)橙黄色 (C)橙黄色 (D)橙黄色 (E)橙黄色/黑色
材料代码	M L
委托单位	CCS、 DNV
使用标签	-
检验项目	: 根据申请者的要求
样品送达日期	: 2025-09-25
检测周期	: 2025-09-30 - 2025-11-17
检测结果	: 检测结果仅对来样负责, 详细的检验结果如下

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评语

	EN 14605:2005+A1:2009 (Type 4)
耐磨损性能	等级 6
耐曲挠破坏性能	等级 6
-30℃温度下耐曲挠破坏性能	等级 6
撕破强力	等级 3
断裂强力	等级 5
抗穿刺性能	等级 3
材料-耐化学品渗透性能-透过时间	样品 D 10%氢氧化钠:等级 6 30%硫酸:等级 6 37%盐酸:等级 6
接缝,连接与装配件 - 耐化学品渗透性能-透过时间	样品 B: 10%氢氧化钠:等级 6 30%硫酸:等级 6 37%盐酸:等级 6 样品 C: 10%氢氧化钠:等级 6 30%硫酸:等级 6 37%盐酸:等级 6 样品 E: 10%氢氧化钠:等级 6 30%硫酸:等级 6 37%盐酸:等级 6
防火性能	合格
接缝强力	等级 4
整衣性能要求	合格

备注: 合格=符合相关标准要求

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郭郁 (授权签字人)



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## 检验结果

化学防护服——化学防护服材料接缝连接和组装的试验方法和性能分类  
EN 14325:2018+A1:2024

### 4.4 章节 耐磨损性能

(EN ISO 12947-2:2016; 马丁代尔耐磨试验仪, 测试压力为 9kPa, 磨砂 A65 耐磨测试砂纸)

A	#1	#2	#3	#4	#5	最小值
原样						
最终旋转圈数 (转)	>2000	>2000	>2000	>2000	>2000	>2000

终点判定方法: 压力罐法

推荐级别: 6

备注:

- 1) 磨损前后的损伤评估, 按照 EN 14325:2018 章节 4.4.2.2 采用压力罐法, 磨损前后的试样在 1 分钟内的增压差最大不超过 100pa。
- 2) 当因材料的性能无法使用压力罐法评估时, 磨损后的损伤评估, 按照 EN 14325:2018 章节 4.4.2.3 采用静水压法, 磨损后试样的平均水压高度需大于 200mm。
- 3) 当因材料的性能无法使用压力罐法或静水压法评价时, 磨损后的损伤评估, 按 EN 14325:2018 章节 4.4.2.4 采用目测法。如果采用目测法, 最大可声称的等级为 3 级。
- 4) 耐磨性能分级: 1 级 >10 转; 2 级 >40 转; 3 级 >100 转; 4 级 >400 转; 5 级 >1000 转; 6 级 >2000 转

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### 4.5 章节 耐曲挠破坏性能

(EN ISO 7854:1997, 方法 B)

#### A

原样	# 1	#2	#3	最小值
经向/长度方向 (转)	>50000	>50000	>50000	>50000
纬向/宽度方向 (转)	>50000	>50000	>50000	>50000

终点判定方法: 压力罐法

推荐级别:6

备注:

- 1) 曲挠前后的损伤评估, 按 EN 14325:2018 章节 4.5.2.2 采用压力罐法。曲挠前后的试样在 1 分钟内的增压差最大不超过 100pa。
- 2) 当因材料的性能无法使用压力罐法评价时, 曲挠后的损伤评估, 按 EN 14325:2018 章节 4.5.2.3 采用静水压法。曲挠后试样的平均水压高度需大于 200mm。
- 3) 当因材料的性能无法使用压力罐法或静水压法评价时, 曲挠后的损伤评估, 按 EN 14325:2018 章节 4.5.2.4 采用目测法。目测法不能用于 1 类到 3 类的防护服的性能等级判定(EN 943-1, EN 943-2, EN 14605)。
- 4) 耐曲挠破坏性能级别分类: 1 级 >500 转; 2 级 >1250 转; 3 级 >3000 转; 4 级 >8000 转; 5 级 >20000 转; 6 级 >50000 转。

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## 4.6 章节 -30℃温度下耐曲挠破坏性能

(EN ISO 7854:1997, Method B)

A

原样	# 1	# 2	# 3	最小值
经向/长度方向 (转)	>4000	>4000	>4000	>4000
纬向/宽度方向 (转)	>4000	>4000	>4000	>4000

终点判定方法: 压力罐法

推荐级别:6

备注:

- 1) 曲挠前后的损伤评估, 按 EN 14325:2018 章节 4.5.2.2 采用压力罐法。曲挠前后的试样在 1 分钟内的增压差最大不超过 100pa。
- 2) 当因材料的性能无法使用压力罐法评价时, 曲挠后的损伤评估, 按 EN 14325:2018 章节 4.5.2.3 采用静水压法。曲挠后试样的平均水压高度需大于 200mm。
- 3) 当因材料的性能无法使用压力罐法或静水压法评价时, 曲挠后的损伤评估, 按 EN 14325:2018 章节 4.5.2.4 采用目测法。目测法不能用于 1 类到 3 类的防护服的性能等级判定(EN 943-1, EN 943-2, EN 14605)。
- 4) 耐低温曲挠破坏性能级别分类: 1 级 >100 转; 2 级 >200 转; 3 级 >500 转; 4 级 >1000 转; 5 级 >2000 转; 6 级 >4000 转。

## 4.7 章节 撕破强力

(EN ISO 9073-4:2021)

A

原样	#1	#2	#3	#4	#5	最小值
经纱撕裂强力 (N)	56.3	56.1	59.5	58.2	58.1	56.1
纬纱撕裂强力 (N)	40.1	43.3	41.5	45.1	45.6	40.1

推荐级别:3

备注:

撕破强力级别分类: 级别 1 >10N; 级别 2 >20N; 级别 3 >40N; 级别 4 >60N; 级别 5 >100N; 级别 6 >150N

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### 4.9 章节 断裂强力

(EN ISO 13934-1:2013;CRE - 2" 条样法)

A 原样	# 1	#2	#3	#4	#5	最小值
经向/长度方向 (N)	1200	1200	1300	1200	1200	1200
纬向/宽度方向 (N)	1100	1100	1000	940	930	930

推荐级别:5

备注:

断裂强力级别分类: 级别 1 >30N; 级别 2 >60N; 级别 3 >100N; 级别 4 >250N; 级别 5 >500N; 级别 6 >1000N

### 4.10 章节 抗穿刺性能

(EN 863:1995)

A 原样	#1	#2	# 3	# 4	# 5	最小值
抗穿刺性能 (N)	62	52	57	53	54	52

推荐级别:3

备注:

抗穿刺性能级别分类: 级别 1 >5N; 级别 2 >10N; 级别 3 >50N; 级别 4 >100N; 级别 5 >150N; 级别 6 >250N.

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### 4.11.2 章节 材料-耐化学品渗透性能-透过时间

(ISO 6529:2013, 方法 A; 原样

测试腔体: 25 mm 直径腔体

收集介质: 三级水

分析速率: 每 60 秒

预处理环节条件: 23±1°C

分析技术: 电导率

系统构造: 密环

流动速率: 100ml/min

最小的渗透检出率: 0.004 µg/(min·cm<sup>2</sup>))

#### D

氢氧化钠, 浓度: 10%, 物

理状态: 液态, CAS NO:

1310-73-2

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm <sup>2</sup> )	1.978	1.682	1.754	1.805
单位面积质量(g/m <sup>2</sup> )	628	629	629	629
样品厚度(mm)	0.46	0.46	0.46	0.46

硫酸, 浓度: 30%, 物理状

态: 液态, CAS NO:

7664-93-9

	No. 1	No. 2	No. 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm <sup>2</sup> )	2.176	2.017	2.405	2.199
单位面积质量(g/m <sup>2</sup> )	629	620	628	626
样品厚度(mm)	0.46	0.44	0.44	0.44

盐酸, 浓度: 37%, 物理状

态: 液态, CAS NO:

7647-01-0

	No. 1	No. 2	No. 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm <sup>2</sup> )	2.652	2.993	2.578	2.741
单位面积质量(g/m <sup>2</sup> )	623	627	627	626
样品厚度(mm)	0.44	0.44	0.46	0.44

推荐级别:

10%氢氧化钠: 等级 6

30%硫酸: 等级 6

37%盐酸: 等级 6

备注:

1. 渗透检出时间—突破检测时间 (以分钟为单位), 从开始测试到第一次检测到测试化学品的采样时间

BT1.0— 渗透率为 1.0 µg/(cm<sup>2</sup>·min)时的标准化渗透检出时间

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累计渗透量—从开始测试到建议突破时间等级相对应的时间内渗透的化学物质总量

2. 依据 ISO13994 确定样品是否抗液体穿透的预筛选未执行, 根据材料耐液体性能的测试方法分三个区域进行测试
3. ^根据 ISO 2286-2 和 ISO 3801 测试质量. 测试结果精确到 1 g/m<sup>2</sup>. 接缝不测试, 因为结果会受到试样切割后暴露的接缝数量的影响
4. #根据 ISO 2286-3 和 ISO 5084 测试厚度. 测试结果精确到 0.02mm. 接缝不测试, 因为结果会受到试样切割后暴露的接缝数量的影响
5. 化学品耐渗透性分级 (渗透检出时间): 1 级>10 min; 2 级>30 min; 3 级>60 min; 4 级>120 min; 5 级>240min; 6 级>480min.
6. 如果第一组三个试样的结果与平均值相差不超过 20%, 则推荐级别应基于渗透时间最低的单值结果. 如果第一组三个试样的结果与平均值相差超过 20%, 则应测试第二组试样以评估级别. 如果第一组和第二组的测试结果, 单值与平均值相差都超过 20%. 根据 ISO 6529 标准, 将两组结果合并, 并丢弃最高 (渗透时间) 结果, 直到剩余结果与平均值相差不超过 20%.

### 4.14 章节 防火性能

(EN 13274-4:2020, 方法 3, 火焰温度 800±50℃ 火焰速度(60±5) mm/s, 使用气源: 丙烷; 样品尺寸: 105mm X 50mm. 样品外侧暴露于火焰)

样品 A

#### 原样

	纵向			横向		
	No. 1	No. 2	No. 3	No. 1	No. 2	No. 3
熔融	N	N	N	N	N	N
滴落	N	N	N	N	N	N
续燃时间(s)	0	0	0	0	0	0
其他	/	/	/	/	/	/

结论: 合格

#### 备注:

- 1) Y: 是; N: 否
- 2) 要求:

所有样品不得有滴落物

所有试样从火焰中取出后, 燃烧时间不得超过 5s (续焰时间<5s)

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**5.4.3 章节接缝,连接与装配 - 耐化学品渗透性能-透过时间**

(ISO 6529:2013, 方法 A; 原样  
 测试腔体: 25 mm 直径腔体  
 收集介质: 三级水  
 分析速率: 每 60 秒  
 预处理环节条件: 23±1°C  
 分析技术: 电导率  
 系统构造: 密环  
 流动速率: 100ml/min  
 最小的渗透检出率: 0.004 µg/(min·cm<sup>2</sup>))

**B**

氢氧化钠, 浓度: 10%, 物  
理状态: 液态: liquid,  
CAS NO: 1310-73-2

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm <sup>2</sup> )	2.125	1.712	1.853	1.897

硫酸, 浓度: 30%, 物理状  
态: 液态, CAS NO:  
7664-93-9

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm <sup>2</sup> )	3.114	2.886	3.308	3.103

盐酸, 浓度: 37%, 物理状  
态: 液态, CAS NO:  
7647-01-0

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm <sup>2</sup> )	2.893	2.937	2.642	2.824

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**C**

氢氧化钠, 浓度: 10%, 物理状态: 液态, CAS NO: 1310-73-2

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm²)	0.684	0.793	0.718	0.732

硫酸, 浓度: 30%, 物理状态: 液态, CAS NO: 7664-93-9

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm²)	0.992	1.213	1.188	1.131

盐酸, 浓度: 37%, 物理状态: 液态, CAS NO: 7647-01-0

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm²)	0.774	0.894	0.928	0.865

**E**

氢氧化钠, 浓度: 10%, 物理状态: 液态, CAS NO: 1310-73-2

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm²)	2.957	2.683	3.019	2.886

硫酸, 浓度: 30%, 物理状态: 液态, CAS NO: 7664-93-9

	# 1	# 2	# 3	平均值
渗透检出时间(min)	0	0	0	0
BT1.0(min)	>480	>480	>480	>480
累计渗透量(µg/cm²)	4.302	3.794	3.901	3.999

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盐酸, 浓度: 37%, 物理状

态: 液态, CAS NO:

7647-01-0

渗透检出时间(min)

BT1.0(min)

累计渗透量( $\mu\text{g}/\text{cm}^2$ )

# 1

# 2

# 3

平均值

0

0

0

0

>480

>480

>480

>480

3.487

3.894

3.182

3.521

等级推荐:

样品 B:

10%氢氧化钠: 等级 6

30%硫酸: 等级 6

37%盐酸: 等级 6

样品 C:

10%氢氧化钠: 等级 6

30%硫酸: 等级 6

37%盐酸: 等级 6

样品 E:

10%氢氧化钠: 等级 6

30%硫酸: 等级 6

37%盐酸: 等级 6

备注:

1. 渗透检出时间—突破检测时间(以分钟为单位), 从开始测试到第一次检测到测试化学品的采样时间

BT1.0—渗透率为  $1.0 \mu\text{g}/(\text{cm}^2 \cdot \text{min})$  时的标准化渗透检出时间

累计渗透量—从开始测试到建议突破时间等级相对应的时间内渗透的化学物质总量

2. 依据 ISO13994 确定样品是否抗液体穿透的预筛选未执行, 根据材料耐液体性能的测试方法分三个区域进行测试

3. ^根据 ISO 2286-2 和 ISO 3801 测试质量. 测试结果精确到  $1 \text{ g}/\text{m}^2$ . 接缝不测试, 因为结果会受到试样切割后暴露的接缝数量的影响

4. #根据 ISO 2286-3 和 ISO 5084 测试厚度. 测试结果精确到  $0.02\text{mm}$ . 接缝不测试, 因为结果会受到试样切割后暴露的接缝数量的影响

5. 化学品耐渗透性分级(渗透检出时间): 1级>10 min; 2级>30 min; 3级>60 min; 4级>120 min; 5级>240min; 6级>480min.

6. 如果第一组三个试样的结果与平均值相差不超过 20%, 则推荐级别应基于渗透时间最低的单值结果。如果第一组三个试样的结果与平均值相差超过 20%, 则应测试第二组试样以评估级别。如果第一组和第二组的测试结果, 单值与平均值相差都超过 20%。根据 ISO 6529 标准, 将两组结果合并, 并丢弃最高(渗透时间)结果, 直到剩余结果与平均值相差不超过 20%。



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## 5.5 章节 接缝强力

(EN ISO 13935-2:2014)

A(袖子)	# 1	# 2	# 3	平均值
原样				
每种类型的直缝(N)	795 FR	871 FR	976 FR	881 FR
A(内里)	# 1	# 2	# 3	平均值
原样				
每种类型的直缝(N)	1024 FR	963 FR	969 FR	985 FR
A(后中)	# 1	# 2	# 3	平均值
原样				
每种类型的直缝(N)	858 FR	874 FR	826 FR	852 FR
A(后拼块)	# 1	# 2	# 3	平均值
原样				
每种类型的直缝(N)	991 FR	941 FR	803 FR	912 FR
A(手套连接缝)	# 1	# 2	# 3	平均值
原样				
每种类型的直缝(N)	152 FR	178 FR	193 FR	175 FR
A(鞋连接缝)	# 1	# 2	# 3	平均值
原样				
每种类型的直缝(N)	504 AB	530 AB	475 AB	506 AB

推荐等级: 级别 4

备注:FR =面料破坏 AB =装配分解  
最低类型接缝的结果: 175 FR

备注:  
接缝强力级别分类: 级别 1 >30N; 级别 2 >50N; 级别 3 >75N; 级别 4 >125N; 级别 5 >300N; 级别 6 >500N

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### 液态化学物质防护服-包含只提供部分身体保护的不透水(3型)或防喷洒渗透(4型)连接的服装的性能要求(类型 PB [3]和 PB [4])

EN 14605:2005+A1:2009

#### 章节 4.3 整衣性能要求-类型 4

(EN 14605:2005+A1:2009, 4.3)

A	试样 1	试样 2	试样 3
原样			
7个动作之后	合格	合格	合格
校准污渍面积(cm <sup>2</sup> )	6.22	6.22	6.28
指示服污渍总面积(cm <sup>2</sup> )	0	0	0
整衣最终评价	合格	合格	合格

指示服: 吸水性无纺布

辅助装备: 根据申请人确认的说明, 在测试过程中使用了实验室准备的附加防护设备或附件, 如手套、靴子和口罩。

测试环境温度: 20±5 °C

指示液组分: 亚甲基蓝、十二烷基醚硫酸钠、柠檬酸和水

指示液表面张力: (30±5)\*10<sup>-3</sup> N/m

测试液体压力: 300kPa

样品尺码

受试者:L

受试者身体尺寸-孟

身高: 182 cm, 胸围: 118 cm

#### 备注:

- 在按照 EN ISO 17491-4 测试之前, 测试对象需要进行试验动作. 测试对象在测试室外以正常步行速度重复以下7个动作3次. 如果由于防护服的阻碍测试对象不能完成一项或多项动作, 或者在动作进行时防护服被明显破坏, 则判定防护服为不合格。
- 所有试样均应通过测试, 即任何一件指示服的污渍总面积应小于或等于校准污渍面积的三倍
- 测试点包括与化学防护服的整体连接; 包括所有不同类型的连接、接缝、交叉接缝和有盖或无盖拉链。例如: 裆缝、后腰缝、前交叉缝、前拉链、颈部交叉缝、袖窿交叉缝。

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