



# Xing Sheng Sling&Belt Group 泰州市力夫特绳网带厂

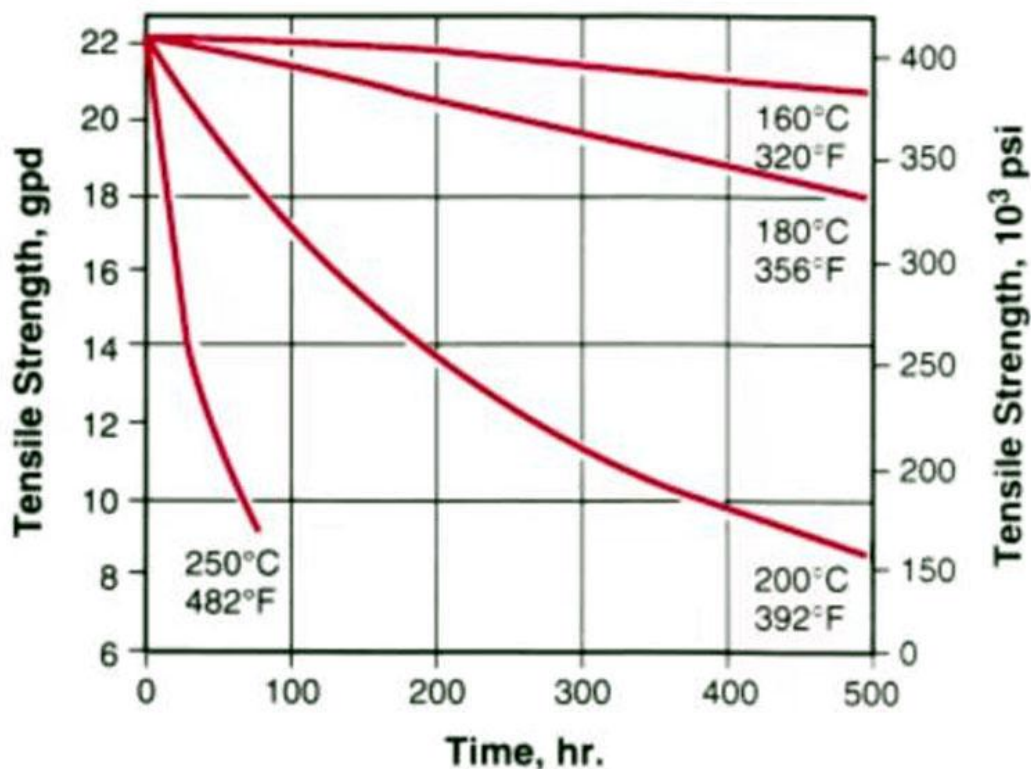
## 耐高温吊带 (High Heat Resistance Webbing Sling)



芳纶吊带由高强度芳纶纤维制成，在温度性能上有很高的稳定性，不仅能在-196℃到300℃的温度范围内连续使用而不会有明显的变化或减损，同时还具有不溶解、不助燃（防火性）

Aramid sling is made of high-strength aramid fibers and has stability in terms of temperature performance. It can be continuously used within the temperature range of -196°C to 300°C without significant changes or loss. It also has properties of being insoluble, non-flammable (fire-resistant).

### 芳纶材料耐温测试曲线图 (Temperature Resistance Testing Curve of Aramid Materials)



Dry, Twist-added Yarn Test  
10" Gauge Length  
10%/Min. Extension  
Tested at Room Temperature



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### 环保阻燃材料

在150摄氏度下具有良好的绝缘性和抗腐蚀性耐火不燃环保料

### 耐高温吊带制作工艺 (Manufacturing Process of High-Temperature Lifting Slings)

High temperature resistant aramid fiber sling is a lifting equipment made by weaving aramid fibers into webbing, and then sewing it into a double-layer or multi-layer combination flat sling process. Aramid fiber is a kind of Synthetic fiber, which has excellent high temperature resistance and high strength characteristics, so it is very suitable for lifting operations under high temperature environment.

The production process of high-temperature resistant aramid fiber sling is very delicate. Firstly, the aramid fiber is woven to form a strong and tight ribbon. There are multiple options for weaving webbing, which can be customized according to lifting needs and weight requirements. The woven ribbon has high strength and durability.

Next, the woven ribbon is sewn through a sewing process to create a combination of double or multiple layers. This design can increase the load-bearing capacity and stability of the sling, enabling it to handle larger weights of goods. The sewing process ensures that each layer of the sling is firmly connected together, ensuring safety during the lifting process.

耐高温芳纶纤维吊带是一种由芳纶纤维编织成织带，再经过缝制成双层或多层组合的扁平吊带工艺制成的吊装设备。芳纶纤维是一种合成纤维，具有优异的高温耐受性和高强度特性，因此非常适合用于高温环境下的吊装作业。耐高温芳纶纤维吊带的制作过程非常精细，首先，将芳纶纤维进行编织，形成一个坚



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固且紧密的织带。织带的编织方式有多种选择，可以根据吊装需要和重量要求进行定制。编织后的织带具有很高的强度和耐久性。

接下来，将编织好的织带经过缝制工艺，制成双层或多层的组合形式。这种设计能够增加吊带的承载能力和稳定性，使其能够应对更大重量的货物。缝制过程确保吊带的每一层都牢固地连接在一起，确保吊装过程中的安全性。

### Features (耐高温吊带参数)

Reference(参考)	MAGMA
Min WLL (最小负荷)	0,3 T
Max WLL (最大负荷)	20 T
Safety factor (安全系数)	7:1
Material (原料)	100% aramid (芳纶)
Min webbing width (最小宽)	25 mm
Max webbing width (最大宽)	150 mm
Thickness (厚度)	2 to 20mm
Configuration (制作)	Type A (1 ply), B (2 plies) or C (4 plies) D(5plies),E(6plies)sling (1-6 层)
Min effective working length	1 m (最小长度)
Max effective working length	30 m (最大长度)
Weight 1st m (一米重量)	From 75 up to 3000 g
Weight linear meter (没加 1 米重)	From 35 up to 500 g
Operating temperature (工作温度)	Up to 300°C
Colour	Yellow



## Xing Sheng Sling&Belt Group 泰州市力夫特绳网带厂

高温吊带主要特性 (Main Characteristics of High-Temperature Sling) :



耐高温

### 耐高温

芳纶织带的连续使用温度范围极宽，在 - 196℃至300℃范围内可正常运行。在560℃以上开始碳化，不熔化，高温下尺寸稳定，收缩率低。

1、 High-temperature webbing has extremely high strength, with a weight-to-strength ratio six times that of steel wire, three times that of fiberglass, and twice that of high-strength nylon industrial filament.

高温织带具有极高的强度，重量比拉伸强度是钢丝的6倍，玻纤的3倍，高强尼龙工业丝的2倍。

2、 The tensile modulus of high-temperature sling is three times that of steel wire, twice that of fiberglass, and ten times that of high-strength nylon industrial filament.

Tel:086-523-86933296 86935835 Fax:086-523-86935096 <http://www.jslift.com>  
Address: 598 JiangPing East Road, TianHe Town, Taizhou City, JiangSu province, china  
MSN: cnlift@hotmail.com liftingsling@hotmail.com Skype:xuyingtegroup QQ: 864050671



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高温吊带拉伸模量是钢丝的 3 倍,玻纤的 2 倍,高强尼龙工业丝的 10 倍。

3、 The high-temperature sling has an extremely wide continuous operating temperature range and does not decompose or melt even at temperatures as high as 500°C.

高温吊带的连续使用温度范围极宽, 在 500°C 的高温下不分解不熔化。

4、 Mechanical Properties: Strength: 3.6 GPa Elongation Modulus: 131 GPa Fracture Elongation: 2.8%

力学性能: 强度: 3.6 GPa、伸长模量: 131 GPa、断裂伸长率: 2.8 %

5、 Thermal Properties: Long-term operating temperature: 300° C Axial thermal expansion coefficient:  $-2 \times 10^{-6} / K$  Thermal conductivity: 0.048 W/(m • K)

热学性能: 长期使用温度: 300°C、轴向热胀系数:  $-2 \times 10^{-6} / K$ 、热导率: 0.048 W(m?K)

Compared to traditional high-strength fiber materials, high-temperature slings have the following advantages and characteristics:

比起传统高强度纤维材质的吊带耐高温吊带有以下优点和特点:

1、 High-temperature resistance, flame retardancy

耐高温, 防火阻燃

2、 Lightweight, high strength

重量轻, 强度高

3、 Dimensionally stable, low shrinkage rate

尺寸稳定, 收缩率低

4、 Advantages such as excellent heat resistance

耐热性好等优点



## Xing Sheng Sling&Belt Group 泰州市力夫特绳网带厂

5、Soft texture, can protect the lifted products

质地柔软，可以保护被吊的产品

**高强 耐拉**

**超强抗拉**

芳纶织带是一种新型高科技合成纤维材料，具高强度、高模量，其强度大于25克/旦，是高强尼龙工业丝的2-3倍。

**此带 10吨 破断拉力**

The advertisement features a black background with a red square icon containing a white lifting sling. Below the icon, the text '超强抗拉' is written in red. The main title '高强 耐拉' is in large white characters. A paragraph of white text describes the material's properties. A large red text element '此带 10吨 破断拉力' is positioned above several rolls of yellow lifting slings that are coiled and stacked.

Application fields **应用领域:**

Military industry, safety protection, aluminum processing production, and lifting in various special. It can replace steel wire rope as a high-temperature resistant lifting solution.

军工、安全防护、铝加工生产、以及各种特殊行业的吊装，可代替以钢丝绳作为耐高温的吊装。

Tel:086-523-86933296 86935835 Fax:086-523-86935096 <http://www.jslift.com>  
Address: 598 JiangPing East Road,TianHe Town,Taizhou City,JiangSu province,china  
MSN: cnlift@hotmail.com liftingsling@hotmail.com Skype:xuyingtegroup QQ: 864050671



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防火阻燃

## 阻燃 防火

芳纶的极限氧指数(LOI)大于28, 当它离开火焰时不会继续燃烧。其自身化学结构所决定, 是一种天生阻燃纤维, 不会因使用时间或洗涤次数降低或丧失阻燃性能。



耐腐蚀

## 耐腐蚀 不老化

芳纶织带化学结构异常稳定, 可耐大多高浓无机酸及其它化学品的腐蚀、抗水解作用和蒸汽腐蚀, 长期暴晒雨淋不脆化, 不老化。





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联系电话：13961011588

Whatsapp:+8613961011588





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中国认可  
国际互认  
检测  
TESTING  
CNAS L1350

# 检 验 报 告

## INSPECTION REPORT

报告编号 190558JWTS135  
Report No.

样品名称 芳纶  
Name of Sample

委托单位 中国石化仪征化纤有限责任公司  
Applicant

检验类别 委托送样  
Test Type

江苏省高性能纤维产品质量监督检验中心  
Jiangsu High Performance Fiber Product Quality Supervision Testing Center



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## 泰州市力夫特绳网带厂



江苏省高性能纤维产品质量监督检验中心  
Jiangsu High Performance Fiber Product Quality Supervision Testing Center

### 检验报告 TEST REPORT

报告编号: 190558JWTS135

第 1 页 共 2 页

委托单位 Applicant	中国石化仪征化纤有限责任公司		委托人 Name	王芳
地址/电话 Add./Tel.	仪征市长江西路1号		检验类别 Test Type	委托送样
客户认定信息 Client's Confirmed Information	样品名称 Sample ID	芳纶	商 标 Brand	-----
	生产单位 Manufacturer	-----	规格型号 Specification	1500/666
	样品数量 Quantity	1筒	货号/批号 Art.No./Lot Number	227-29
	样品描述 Description of Sample	黄色长丝	样品等级 Sample Grade	-----
受理日期 Date of Sample Received	2019-09-20	检验日期 Testing Date	2019-09-20~2019-09-27	
检验依据 Test Standards	GB/T 14343-2008 《化学纤维 长丝线密度试验方法》 GB/T 19975-2005 《高强度化纤长丝拉伸性能试验方法》 FZ/T 50017-2011 《涤纶纤维阻燃性能试验方法 氧指数法》			
检验结论 Comprehensively Judging Conclusion	样品经检验, 所检项目测试结果见第2页。			
样品照片 Sample Picture	<div style="display: flex; align-items: center;"> <div style="margin-left: 20px;"> <p>主 检 Inspected by</p> <p>审 核 Checked by</p> <p>批 准 Approved by</p> <p>签发日期 Signature Date</p> </div> <div style="margin-left: 20px; text-align: center;"> <p>2019年9月29日 Year Month Day</p> </div> </div>			
备 注 Remarks	对于委托送样检验, 本报告仅对来样负责。			



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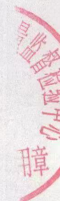
检验报告  
TEST REPORT

报告编号: 190558JWTS135

第 2 页 共 2 页

序号 No.	检验项目 Test Items	技术要求 Technical Requirements	检验结果 Test Results	单项评价 Single Evaluation
1	线密度, dtex	-----	1710.6	-----
2	拉伸性能			
	断裂强度, cN/dtex	-----	18.0	-----
	初始模量, cN/dtex	-----	542	-----
3	氧指数, %	-----	30.3	-----
备注 Remarks	-----			

\*\*\* 结束/End of Report \*\*\*





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序号	检 验 项 目		标 准 要 求	检 验 结 果		
1	外层	阻燃性能	经向	续燃时间(s)	≤2	0
			纬向	损毁长度(mm)	≤100	17
				试验现象	不应有熔融, 滴落现象。	合格
		续燃时间(s)		≤2	0	
		断裂强力		经向(N)	≥650	1285
				纬向(N)		930.9
				撕破强力	经向(N)	≥100
		纬向(N)	196.5			
		缩水率	经向(%)	≤5	0.9	
			纬向(%)		1.1	
		色牢度	耐洗沾色(级)	≥3	4	
			耐水摩擦(级)	≥3	4	
	光色牢度(级)		≥4	符合4级要求		
	热稳定性能	变化率(%)	≤10	1.0		
		现象	试样表面无明显变化。	合格		
	表面抗湿性能(级)		≥3	4		
	单位面积质量(g/m <sup>2</sup> )		195±10	191		
以下空白。						