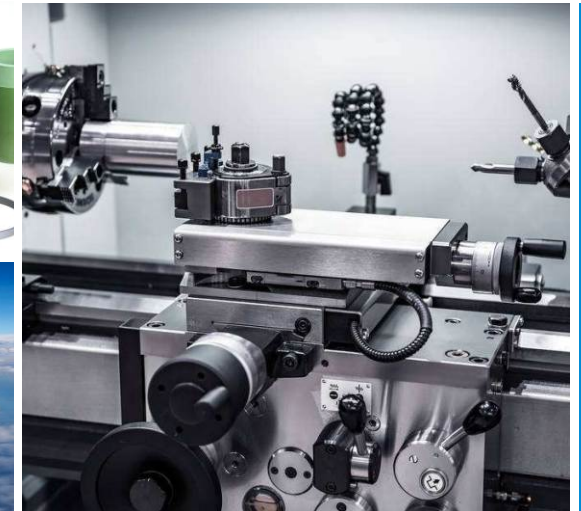


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导向元件和密封系统解决方案的技术伙伴

Guide Components And Sealing System Solutions Technology Partner

聚四氟乙烯材料产品

PTFE Products

Further Information At:
www.kintowe.com

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Offer the parameters and characteristics of the sample are for reference only, Kintowe reserves the right to change product design and instructions, are subject to change without prior notice.

金泰工程塑业有限公司
KINTOWE ENGINEERING PLASTIC CO.,LTD.

ISO 9001:2000 GB/T 19001-2008



KINTOWE ENGINEERING PLASTIC CO.,LTD. 金泰工程塑业有限公司

公司简介 Company profile

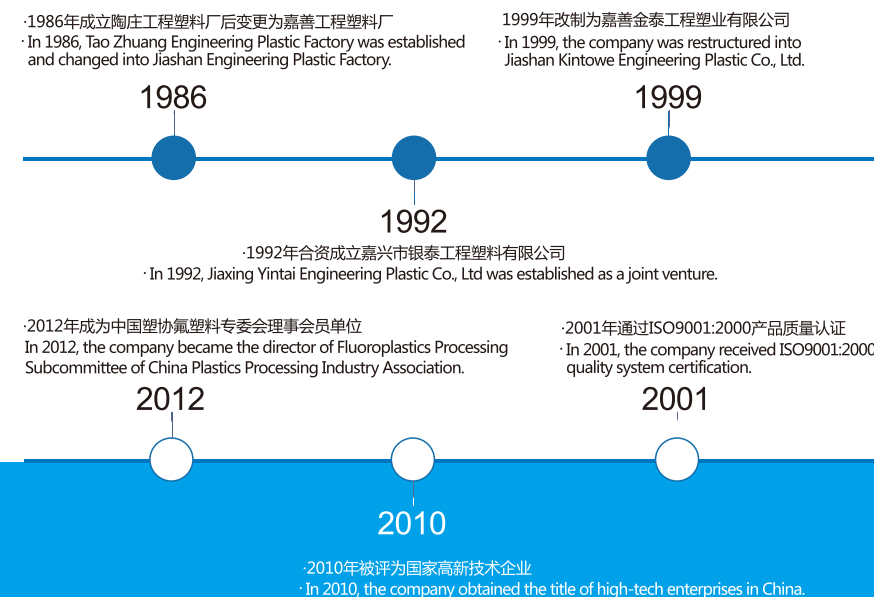


嘉善金泰工程塑业有限公司创始于1986年，专业致力于导向元件和密封系统产品的设计、研发、制造与销售，依托卓越的科研实力与强力的执行效能为客户提供优质的密封组件解决方案。通过多年的努力，金泰塑业的市场范围不断扩展，已成为国内实力雄厚的密封件供应商之一，同时也赢得了广大海外客户的一致推崇。公司以“专业、优质、进取”为核心价值，通过不断的技术革新与质量管控、管理创新与服务提升，努力实现为客户创造最大化价值的企业目标。金泰产品以其良好的稳定性、加工精度、可靠性与完整性始终走在行业的前列，公司通过原材料的质量控制和成本管理，不断提升金泰品牌产品的市场竞争力。目前，公司占地面积12000多平方米，厂房8000多平方米，各类专业生产设备100多台套，总资产达7000万元。拥有卷管、塑料、金工三大生产加工车间以及专业的技术研发中心，具有高度集中的优质生产供应能力、同时具备专业的技术研发和产品试验测试能力。

Established in 1986, Jiashan Kintowe Engineering Plastic Co., Ltd specializes in guide components and sealing system product design, development, production and sales, provides customers with high quality sealing components solution relying on excellent scientific research strength and strong executive function. After years of efforts, the company has been expanding market scope, becomes one of the capitalized sealing element manufactures in China and is widely praised by overseas customers. The company cites "Professional, High Quality, Enterprising" as the core value, makes efforts to achieve the goal of creating maximum value for the customer by continuous technical innovation and quality control, management innovation and service improvement. Based on excellent stability, precision, reliability and integrity, company's products stay in the forefront of industry. By quality control and cost management of raw materials, the company is constantly improving market competitiveness of Kintowe brand products. At present, the company covers an area of more than 12000 square meters, has 8000-square-meter plant, more than 100 sets of various professional production equipment and 70-million-Yuan total assets. The company has three major workshops: tube-reeling workshop, plastic workshop and machining workshop and professional technology research and development centers. These endow company with the capacity of highly concentrated production supply and professional technology development and product test.

金泰是导向元件和密封系统解决方案的技术伙伴。多年来，我们一直努力探索，为客户提供高市场适应性的优质产品以及完善的服务，同时，我们也正在建设一个更可靠、更稳定、更科技、更国际、更具创新力和生产力的优质供应链平台。我们是KINTOWE金泰。

Kintowe is technology partner for guide components and sealing system solutions. Over the years, we have been trying to explore and provide customers with High-Market-Adaptability quality products as well as perfect services. Meanwhile, we are building a more reliable, stable, technological, international, innovative and productive, high level supply chain platform. We are Kintowe.



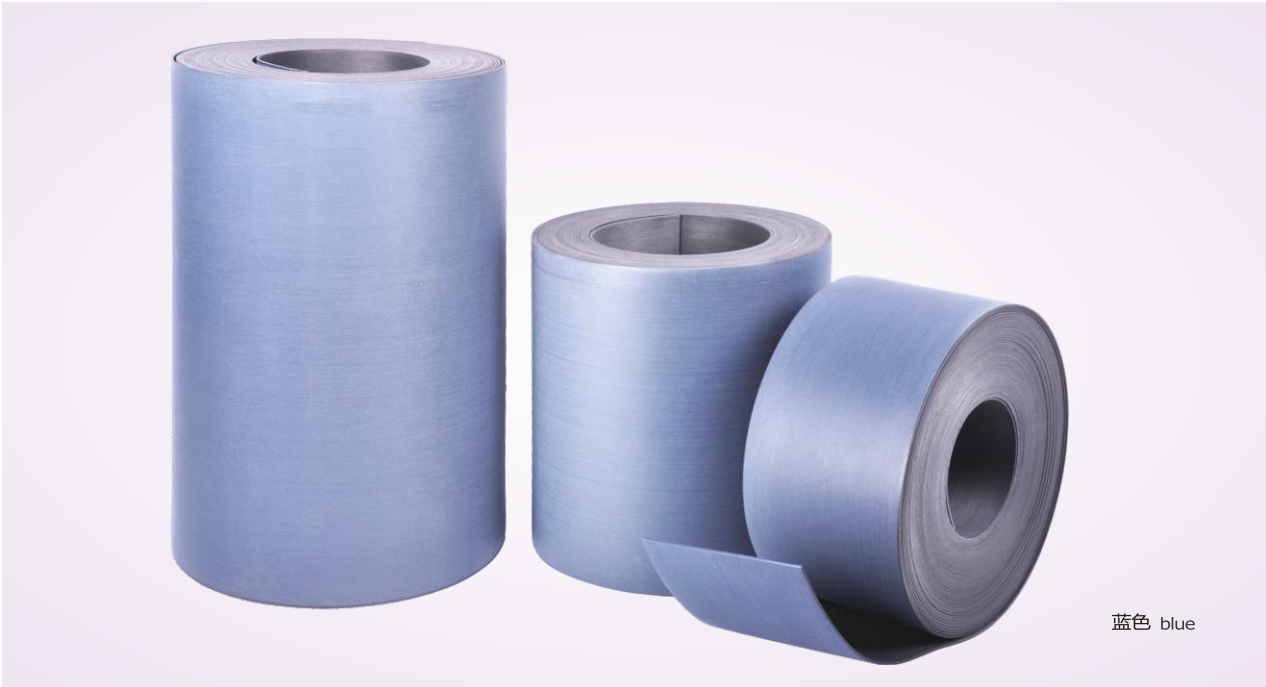
金泰产品包括填充改性氟塑料系列、PFC高强度夹布酚醛系列、液压密封系列等。产品具有自润滑、耐磨、耐高温、高机械强度等特性，可应用于工程机械、数控机床、加工中心、精密机床、油田、水利工程等行业，其中水工闸门密封复合材料被国家重点水利工程三峡水利工程采用，公司自主开发的PFC改性高强度夹布酚醛导向环系列产品被认定为浙江省高新技术产品，广泛应用于工程机械、矿山机械、锻压机械等行业，并远销法国、意大利、荷兰、日本及台湾等地区。公司自成立以来，已获得ISO9001：2000质量体系认证；2012年成为中国塑协氟塑料专委会理事会员单位；多次获得浙江省高新技术企业称号、国家高新技术企业、AAA级信用企业称号等。未来，我们将不断强化服务意识，以科技为先导，努力将金泰打造成为我国优秀民族产业品牌，积极参与全球化的贸易与合作，向着国际化、科技化、产业化的方向不断前行。

Kintowe products consist of filled and modified fluoroplastic series, PFC high-strength cloth-reinforced phenolic resin series, hydraulic seal series and so on. Products have characteristics of self-lubricating, wear resistance, high temperature resistance, high mechanical strength, etc. can be used in engineering machinery, CNC machine tools, machining center, precision machine tools, oil field, water conservancy and other industries. Among them, hydraulic gate sealing composite material is adopted in Three Gorges Project. PFC modified high-strength fabric phenolic guide ring series, which is independently developed by company, is identified as high and new technology products of Zhejiang Province, widely used in engineering machinery, mining machinery, forging machinery and other industries, and exported to France, Italy, Netherlands, Japan and Taiwan and other regions. Since the establishment, the company has received ISO9001:2008 quality system certification, becomes the director of Fluoroplastics Processing Subcommittee of China Plastics Processing Industry Association in 2012, repeatedly obtained the titles of high-tech enterprises in Zhejiang Province, high-tech enterprises in China, AAA grade credit enterprise, etc. Embracing the future, we will continue to strengthen the service consciousness, with leading guidance of science and technology, struggle to build Kintowe into an excellent national industry brand, actively participate in global trade and cooperation, keep forging ahead in the direction of the internationalization, technicalization and industrialization.



YT 导轨软带

YT SOFT TAPE FOR GUIDE-WAY



典型应用

适用于各类精密机床，数控机床，重型机床以及纺织机械、印刷机械等的滑动导轨的制造和维修。

TYPICAL APPLICATION

It could be used in manufacturing and maintenance of the sliding guide-ways on various precision, NC, and heavy duty machine tools and on textile and printing machinery.



技术参数 TECHNICAL PARAMETERS

材料型号 Material Type	颜色 Color	密度 Density (g/cm³)	线胀系数 Linear thermal expansion factor (×10 ⁻⁵)	抗拉强度 Tensile strength (MPa)	延伸率 Elongation (%)	抗压强度 Compressive strength (MPa)	弯曲强度 Bending Strength (MPa)	冲击强度无缺口 Impact Strength without Notch (KJ/m²)	摩擦磨损性能（干摩擦） Friction and Wear Properties(Dry Friction)		
			40-120℃						摩擦系数 Coefficient of friction	磨痕宽度 Wear scar width (mm)	磨损量 Wear Loss (mm³)
YT	蓝色 Blue	3-3.5	7.5	> 13	110	30-40	25-30	> 15	0.16-0.21	< 6	6.3-10.1

消除爬行，防止磨损，确保快速、准确、平滑运行

Eliminate crawl, prevent abrasion, and ensure rapid, accurate, smooth operation.

材料介绍

YT导轨软带是填充改性并经表面活化的聚四氟乙烯车削软带，具有优异的摩擦磨损特性，静动摩擦系数很接近。是机床行业用于机床制造与维修的新颖材料，特别是精密机床的导轨耐磨覆面。采用YT导轨软带的机床，可以有效地消除机床的爬行现象；防止磨损对磨导轨副；确保快速，准确地定位和平滑地运动；不产生震颤。YT导轨软带也可用作自润滑耐磨的滑动衬套，垫片等。使用方便，耐磨性好。

MATERIAL INTRODUCTION

YT Soft Tape for Guide-way, a kind of turning soft Tape made of PTFE, filled, modified, and surface activated, has excellent friction and wear-resistance characteristic and almost same static and dynamic friction coefficients. As a kind of novel material, it can be used in the manufacturing and repairing of machine tools, especially can be used as the guide way's abrasion-proof surface on precision machine tools. Machine tools equipped with the YT soft tapes can avoid the crawling phenomenon effectively, avoid abrasion to guide set, locate exactly quickly and move smoothly for sure; and will produce no tremor. YT guide soft tape can also be used as a self-lubricating, wear-resistant sliding bushing/gasket, which is easy to use with good wear resistance.

材料特性

01. 静动摩擦系数很接近，可消除爬行，运行平稳，微动进给定位好。
02. 耐磨性能优异，提高了导轨精度保持性，延长机床维修保养周期。
03. 吸震、消音，提高被加工件的表面精度和质量。
04. 自润滑性好，摩擦系数低，可降低驱动力的消耗，避免擦伤金属导轨面。
05. 维修简便，可修复翻新报废的机床。

MATERIAL PROPERTIES

01. With almost the same static and dynamic friction coefficients, it can avoid crawling phenomenon, can operate smoothly, and has good fretting position performance.
02. With excellent abrasion resistant property, it can strengthen the stability of guide-way accuracy, and prolong the machine tool's maintenance period.
03. With shock absorption and sound absorption performance, it can enhance the processed parts' surface accuracy and quality.
04. With good self-lubricating property and small friction coefficient, it can reduce driving force consumption, and avoid the scratching on metallic guide way surface.
05. For can be maintained easily, it can be used in the renovation and repair of abandoned machine tools.

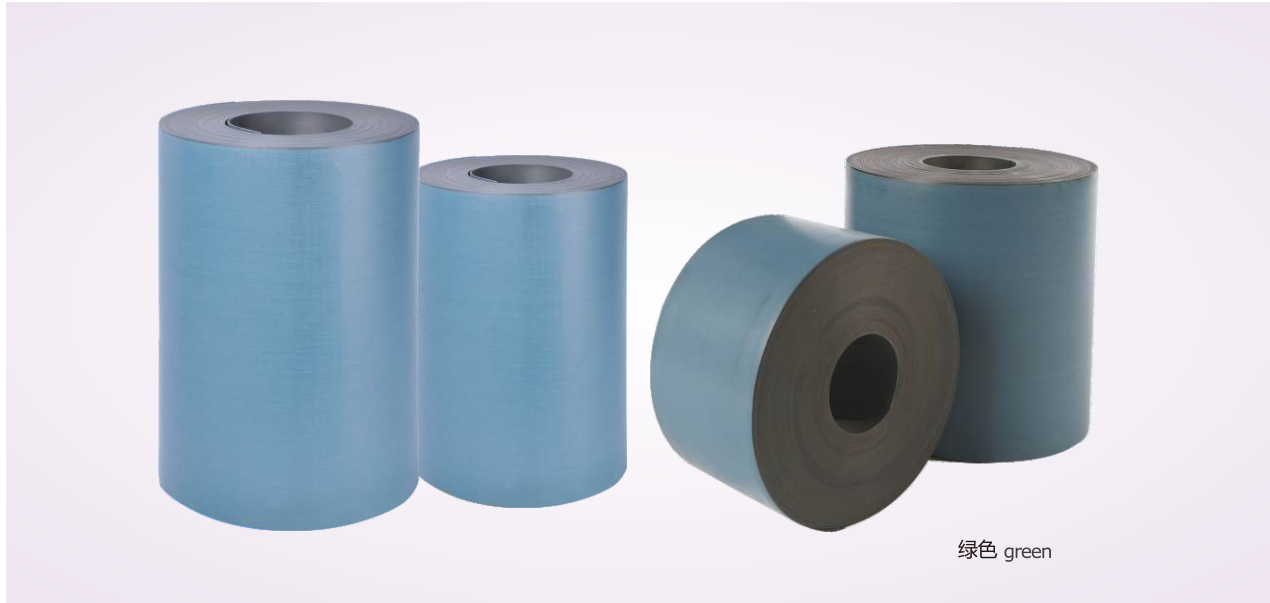
YT导轨软带产品规格 PRODUCT SPECIFICATIONS

厚度 Thickness (mm)	宽度 Width (mm)
0.5, 0.8, 1.1, 1.4, 1.5, 1.7, 2.0, 2.5, 3.0	100, 200, 300
特殊规格可定做加工	We also offer custom designed products made to your specifications



YT 导轨软带

YT SOFT TAPE FOR GUIDE-WAY



YT导轨软带粘贴工艺

一般YT导轨软带是粘贴在滑动导轨副的短导轨上，使其与长导轨配合滑动。粘贴时金属导轨的粘贴面光洁度宜取Ra值6.3-12.5μm与之相配对的金属导轨应略宽于YT导轨软带。粘贴前应将金属粘贴面除锈，去油并用丙酮擦洗干净，晾干后方可进行粘贴。胶粘剂可选用本公司配制的专用粘接胶。具体配胶工艺请参照专用胶的使用说明。涂胶时可用“带齿刮板”或短毛刷将胶纵向均匀地涂布在金属粘贴面上，横向涂布在YT导轨软带粘贴面上(灰色面)。胶层不宜过薄或太厚。一般要求固化后的胶层控制在0.08-0.12mm左右。

ADHESIVE BONDING TECHNOLOGY OF YT SOFT TAPE

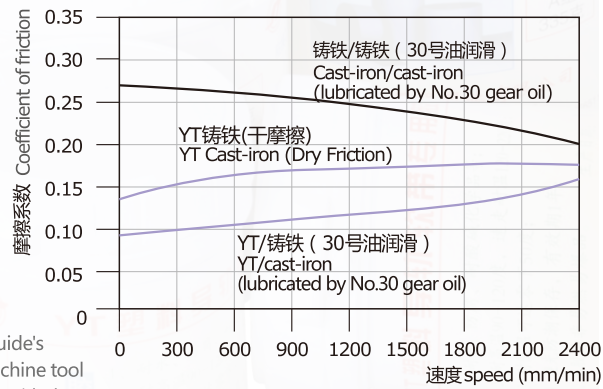
Generally, YT soft tape will be affixed to the sliding guide way's assistant short guider, and will slide together with the long guide way. Clear away the rust and oil on the metallic guide's sticking surface, clean it with acetone solution, and then air it. Before stick a YT soft tape to a metallic guide way, please keep the finishing degree (Ra) of the metallic guide's sticking interface in the range 6.3-12.5μm, and assure it is little narrower to its matching guide way. Special adhesives manufactured by our company are available, and please refer to their instructions for the detailed production process. To apply the adhesive, please smear it longitudinally and homogeneously with short-hair brushes or strickles with teeth on the metallic sticking interface, and laterally on the YT guide soft tape's sticking interface (a grey surface). It shall not be too thinner or too thicker, generally the cured adhesive layer can be changed from 0.08 to 0.12 mm.

摩擦系数

机床导轨是机床中的基本结构要素之一。机床的精度和寿命在很大程度上决定于机床导轨的质量，最常用的机床导轨是用铸铁制造的。但由于铸铁导轨的摩擦系数较高，同时摩擦系数随相对滑动速度的变化较大，容易引起“爬行”（粘滑）现象，严重影响机床的精密度和加工件的质量。YT导轨软带为您解决了上述难题。

THE FRICTION COEFFICIENT

As a basic structural element of a machine tool, to a large extent, the machine tool guide's quality will decide the machine tool's precision and lifecycle. The most common machine tool guides are made of cast-iron, whose friction coefficient is large and varies greatly along with the relative sliding speed; So, easily, they will bring crawling (or stick-slip) phenomenon, which will affect the machine tool's precision, and the processed parts' quality badly.



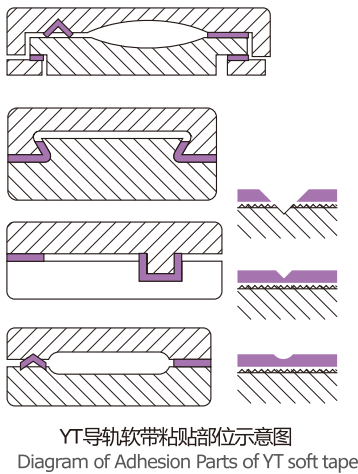
YT导轨软带的摩擦系数--速度特性曲线
The friction coefficient of YT soft tape for guide way represented by a speed characteristic curve

YT导轨软带专用粘接胶 甲组份		净重：0.33Kg
粘接工艺	01 将机床导轨粘接面打毛至Ra3.2μm-Ra6.3μm, YT导轨软带粘接面不可打毛，褐色面为粘接面。	非易燃易爆品
	02 用丙酮将两粘接面擦洗至净。	
	03 按重量甲组：乙组=2：1称重，均匀搅拌，在30分钟内将胶均匀涂在两粘接面。	
	04 加压固化，压力≥0.1MPa，室温固化24-36小时。	
YT导轨软带专用粘接胶 乙组份		净重：0.17Kg
技术参数	技术指标：（YT导轨软带与铸铁粘接）	非易燃易爆品
	剥离强度：≥50N/cm	
	剪切强度：≥10MPa	
注意事项	01. 粘接环境温度10-30℃为宜。	
	02. 配胶前分别将胶搅拌均匀，勿使用同一搅棒。	
	03. 避光防潮保存，有效期2年。	

BONDING GLUE FOR YT SOFT TAPE COMPONENT A		NET WEIGHT: 0.33 Kg
ADHESIVE BONDING TECHNOLOGY	01. Please roughen guide way's bonding surface to Ra3.2μm-Ra6.3μm. Do not roughen YT soft tape's bonding surface, which is brown.	Non flammable and explosive materials
	02. Clean two bonding surfaces with acetone.	
	03. According to weight of component A: weight of component B=2:1, mix them totally and glue evenly two bonding surfaces within 30 minutes.	
	04. Pressurized to make it solidify, pressure ≥ 0.1MPa, 24 to 36 hours solidification at room temperature.	
BONDING GLUE FOR YT SOFT TAPE COMPONENT B		NET WEIGHT: 0.17 Kg
TECHNICAL PARAMETERS	Technical index: (YT soft tape bonding with cast iron)	Non flammable and explosive materials
	Peel strength: ≥50N/cm	
	Shear strength: ≥10MPa	
NOTES	01. Bonding at ambient temperature 10-30 °C is advised.	
	02. Mix glue respectively before glue preparation. Please don't use the same stirring rod.	
	03. Storage: Keep away from sunlight and dampness. Valid period is 2 years.	

粘贴时应将YT导轨软带拉紧压服，使其全面接触，避免产生气泡等接触不良现象。对大、中型机床粘贴时，YT导轨软带的两头应用压板或螺钉定位。粘贴后的导轨应在压力于室温或加热条件下固化。加压必需均匀，可利用机床工作台自身的重量反转加压于粘贴的导轨上，必要时再加重物。按1Kg/cm²加压。粘贴好的YT导轨面可用机械加工或手工刮研到预期的精度要求。为利于用户合理有效地应用YT机床导轨软带，本公司特开辟YT导轨软带粘贴服务业务。根据客户要求，派专人上门指导或代为粘贴。

Please press and flatten the YT guide soft tape well to let it fully contact with the guide way's surface, before sticking it to avoid air bubbles or other bad contact phenomenon. For large/middle size machine tools, before sticking the YT tape, please fix its two ends with platens or screws on the guide way's surface. The guide way with an adhesive YT soft tape, shall cure under pressure in room temperature or under heating condition, it can be pressurized reversely using the machine tool table's weight, and the pressure applied on it must be uniform. If necessary, laying weight objects to increase pressure 1Kg per cm². The guide way's surface with cured adhesive and the YT soft tape can be processed by mechanical machining or manual scraping to reach its anticipative precision. To help our customer use YT soft tape effectively and reasonably, we have started a service for YT soft tape sticking operation, assigning specialists to give directions or operate the work.

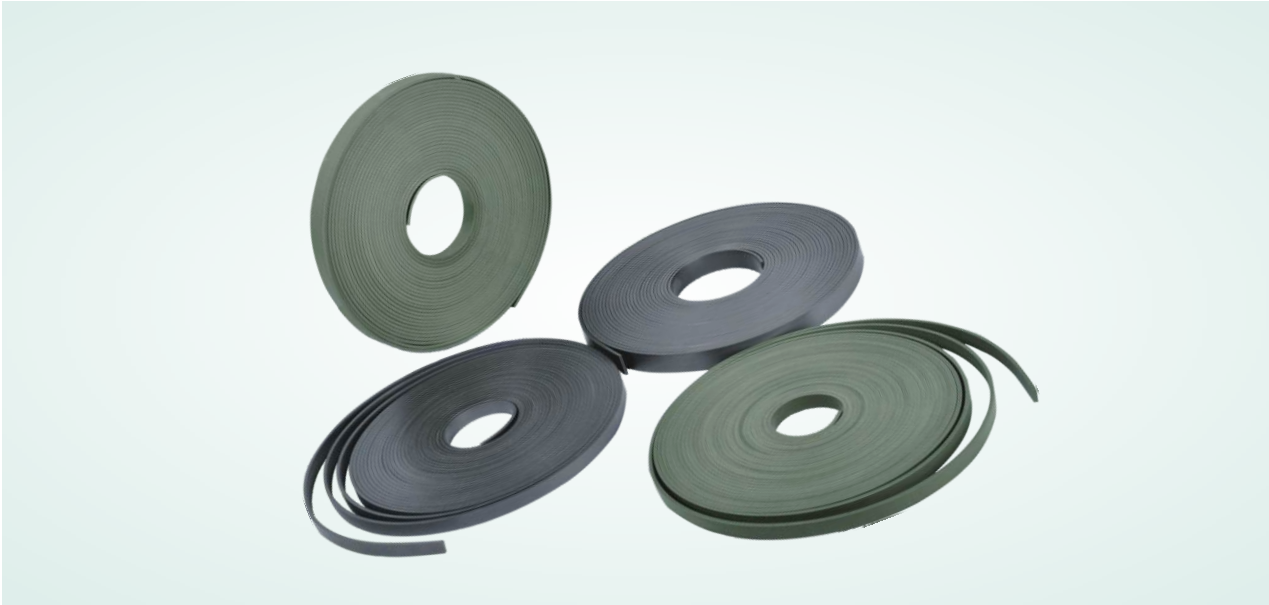


性能 Performance	试验方法 Test Methods	单位 Unit	指标 Index
软带与铸铁粘接的剪切强度 Shear Strength of Bonding between Cast-iron and Soft-Tape	GB/T13936	MPa	>10
软带与铸铁180°的剥离强度 180°C Peel Strength between Cast-iron and Soft-Tape	GB/T15254	N/cm	>24
受压变形率（压力 1MPa） Ratio of Compressive Deformation (Pressure 1MPa)	企标	%	<0.1
摩擦磨损性能（用30号机油润） Friction and Wear Properties (lubricated by No.30 gear oil)	GB3960		>0.05
摩擦系数μ Friction Coefficient	JB/T7898 附录A	mm³/N.m	<1×10⁻⁶
磨损率 Wear Rate PV 极限值(干摩擦) V=1m/s PV Limit Values (Dry Friction) V=1m/s		MPa.m/s	>0.6



DFG 氟碳导向带

DFG FLUOROCARBON GUIDANCE TAPE



材料介绍

由于氟碳树脂(PTFE)的低摩擦、耐腐蚀、热稳定等优异特性，已被广泛用作摩擦、密封零件，特别是在腐蚀介质中，而这个问题往往是一般金属和其它非金属材料所难以解决的。特别是当它被进一步通过种种填充改性以及与某些芳香族树脂复合成塑料合金后，可以获得更高的承载能力、热机械稳定性、耐磨性以及PV 极限值等。我公司是氟碳树脂制品的专业加工厂，并从事于其改性与工艺的研究。产品有板材、棒材、管材、软带以及诸如衬套、密封件、垫片、球碗等零件。为了满足处于润滑困难或无油润滑以及高侧向压力等工况条件下的气缸或液压缸导向支承的需要，本公司又开发了几种不同配方的DFG导向带材料，并已成功地应用作为压缩机、起重机、装载机及其它各种工程机械的液压缸或气缸的导向环及支承环。

MATERIAL INTRODUCTION

Due to its excellent low friction, corrosion resistant, and thermal stability, PTFE is widely used in friction parts and obturators;Especially it can be used in corrosive mediums, and no other metallic or nonmetallic material can. It even have higher load capacity, thermo mechanical stability, wear resistance, and PV limit value after been modified by filling with various methods or became a plastics alloy through synthesis with some aromatic resins.As a professional factory processing PTFE, we are engaged in the research about its modification and process. We have plates,bars, tubes, soft tapes, and components like bushings, seal parts,gaskets, and ball sockets and so on. To meet the guide bearing requirements of pneumatic/hydraulic cylinders under working condition of difficult lubrication, oil-free lubrication, and high lateral pressure, we also have developed several kinds of DFG guide tapes of different formulas, which have been applied in the pneumatic/hydraulic cylinders'guide ring and support ring on compressors, cranes, loaders and other various construction machines.

DFG产品型号 DFG PRODUCT TYPE

型号 Product Type	颜色 Color	主要特征及适用范围 Applicability and Main Characteristics
DFG-120	黑色 Black	抗磨粒磨损性能，较突出的耐磨和机械性能，以及热机械性能在中高温下的蒸汽和水，以及腐蚀介质中工作下的泵、机、阀等均能保持其良好的导向密封作用。 Due to abrasive wear resistance property, notable wear resistant, mechanical, and thermo - mechanical properties, the material can give good guidance sealing function to the pumps, machines, and valves in high temperature steam and water , or in corrosive mediums.
DFG-130	淡绿色 Light green	突出的尺寸稳定性、承载能力、弹性和热机械性能、并具有一定的抗磨粒磨损特性。可用作中、高压下和较高温度范围下(±120 ℃)工作的导向支承零件。 Due to its outstanding dimensional stability , load capacity, elasticity, and thermo-mechanical property, and certain abrasive-wear characteristic, the material can be made into guider supporting parts working under middle-high pressure and higher temperature (from -120℃ to + 120℃).

ISO 9001:2000 GB/T 19001-2008



材料特性

01. 具有较高的结构强度，当作为气缸或液压缸的导向密封时，可承受较高的侧向应力与反向应力,从而保证了活塞或活塞杆的平衡运动。
02. 优异的摩擦磨损特性，即使在干摩擦或边界润滑以及无润滑性的液体介质中工作的气缸或液压缸，均可显示出其优越的耐磨减摩、抗粘等功效。
03. 具有一定的弹性和柔顺性，能很服贴的处于两个金属摩擦副之间，既有优异的密封性，又能保护对磨金属不使磨损。
04. 耐温性能好，可在±120 ℃温度范围下长期使用。
05. 适用性广泛，使用方便，可适应任何型号和非标的气动或液压系统的活塞和活塞杆的导向密封要求，并可按需要的长度随切随装。

MATERIAL PROPERTIES

01. With high structure strength, it can endure high lateral and reversed stresses, so can guarantee the piston or piston rod's smooth running, when is used as the pneumatic/hydraulic cylinder's guide seal.
02. With excellent wear resistance, the pneumatic/hydraulic cylinders equipped with the material will show outstanding wear-resistant, antifriction, and adhesive resistant performance under dry friction,boundary lubrication, and in liquid medium of less lubricity.
03. With certain degree elasticity and compliance, it can stand between two metallic friction pairs submissively, with excellent sealing performance and good abrasion resistance for the two mutually abrading metallic surfaces.
04. With strong heat resistance, it can be used under temperature from -120℃to +120℃for long term.
05. With abroad applicability and convenient usage, it can meet the guidance sealing requirements of various type and nonstandard hydraulic or pneumatic systems' pistons and piston rods. And you can cut it into various lengths during assembly.

技术参数 TECHNICAL PARAMETERS

材料型号 Material Type	密度 Density (g/cm³)	线胀系数 Linear thermal expansion factor (×10 ⁻³)	抗拉强度 Tensile strength (MPa)	延伸率 Elongation (%)	抗压强度 Compressive strength (MPa)	弯曲强度 Bending Strength (MPa)	冲击强度 无缺口 Impact Strength without Notch (KJ/m²)	摩擦磨损性能(干摩擦) Friction and Wear Properties (Dry Friction)		热变形温度 Heat Distortion Temperature 0.4MPa (℃)
		40-120℃						摩擦系数 Coefficient of friction	磨损量 Wear Loss (mm³)	
DFG-120	2.5-2.6	7.0-8.5	17-20	>100	30-35	20-25	>15	0.12-0.16	< 2.6	60-65
DFG-130	3.1-3.5	5.8-7.5	20-25	>125	40-50	30-40	20-25	0.20-0.25	6.5	60-70

金泰工程塑业有限公司
JIASHAN KINTOWE ENGINEERING PLASTIC CO.,LTD.



DFG 氟碳导向带

DFG FLUOROCARBON GUIDANCE TAPE

DFG导向带的长度计算

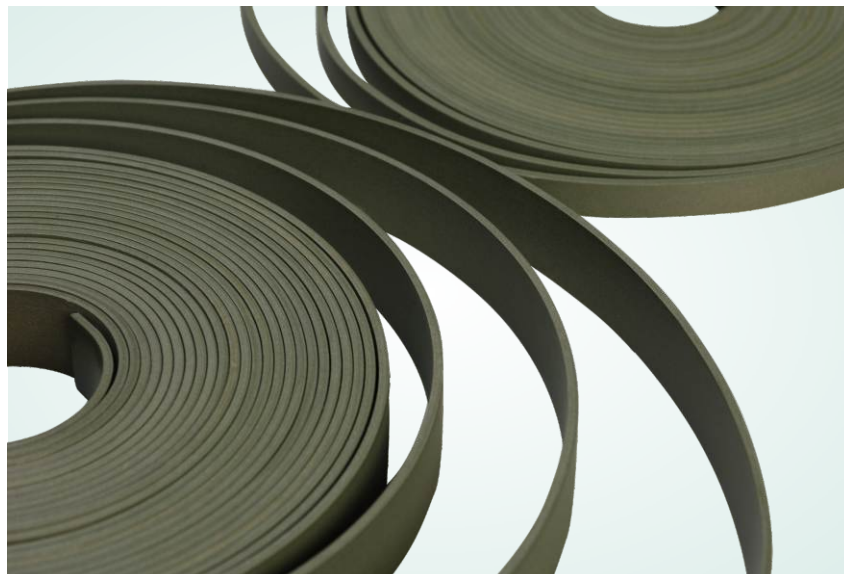
01 活塞导向带的长度计算： $L=\pi (CD-H) -G$

式中：L为导向带的长度mm；
Cd为缸套的直径mm；
H为活塞沟槽深度+0.05mm；
(0.05为活塞与缸壁间的配合间隙)
G为导向带搭接口间隙mm。

02 活塞杆用导向带的长度计算：

$$L=\pi (RD+H) -G$$

式中：L为导向带的长度mm；
RD为活塞杆的直径mm；
H为活塞沟槽深度+0.05mm；
(0.05为活塞杆与缸壁间的配合间隙)
G为导向带搭接口间隙mm。



可以根据客户的特殊要求在DFG-130导向带上压上花纹

PATTERNS CAN BE COMPRESSED ON DFG-130 GUIDE TAPE ACCORDING TO THE SPECIFIC REQUIREMENTS FROM THE CUSTOMERS

LENGTH CALCULATION OF DFG GUIDE TAPE

01 Calculating the length of the piston's guide tape: $L=\pi (CD-H) -G$

L represents the guide tape's length (mm).
CD represents the cylinder sleeve's diameter(mm).
H represents the piston groove's height+0.05mm.
(0.05 is the fit clearance's length between the piston and the cylinder wall)
G represents gaps between lap joints on the guidance tape (mm).

02 Calculating the length of the piston rod's guide tape: $L=\pi(RD+H)-G$

L represents the guide tape's length (mm).
RD represents the Piston Rod's diameter(mm).
H represents the piston groove's height+0.05mm.
(0.05 is the fit clearance's length between the piston and the cylinder wall)
G represents gaps between lap joints on the guidance tape(mm).

产品规格匹配表

PRODUCT SPECIFICATION MATCHING TABLE

缸体内径 Internal Diameter of the Cylinder (mm)	搭接口间隙 Gap between Lap Joints (mm)
0-25	2
25-45	3
45-100	5
100-150	7
150-250	10

DFG产品装配

作为活塞或活塞杆导向密封用的软带，其作用是保证活塞和活塞杆在承受侧向压力下平衡运动，防止金属活塞或活塞杆与缸体间的直接接触和摩擦，同时还要求导向带在受压力下不产生蠕变变形，以确保良好的导向支承性能。因此，除要求导向带的材质必需具有良好的机械物理特性和耐磨减摩性能外，导向带与缸体，活塞和活塞杆等的结构设计也是至关重要的关键所在。典型的结构设计参见图1和图2所示。导向带着几何形状一般多采用“距”形扁平带材。其厚度就根据活塞或缸体的沟-0.05 槽深度与活塞或活塞杆间的配合间隙总和的0.05mm负公差。即 $h=H^{+0.05}$ mm。导向带的宽度则为沟槽深度的-0.1mm。导向带的接口则采用45°或60°的斜塔口为宜。

PRODUCT ASSEMBLY

As a kind of soft tape used in pistons or piston rods' guidance seal, it can guarantee the balance movement of pistons or piston rods under lateral pressure, avoid direct contact and abrasion between metallic pistons/piston rods and cylinder body. For its work ask the tape bring no creep deformation under pressure to keep good guiding and supporting performance, the structural design between the tape and the cylinder, between the tape and the piston/piston rod are of much importance. The typical structural design is shown in Table 1 and Table 2. Generally, use those flat guide tapes who have "Rectangle" geometrical shape, and their thickness shall equal to the 0.05mm negative tolerance of summation of the gap length between pistons/piston rods groove depth, as $h=H^{+0.05}$ mm. And the guide tape's width shall equal to groove depth-0.1mm. We recommend 45° or 60° bevel lap joints to connect the tapes.

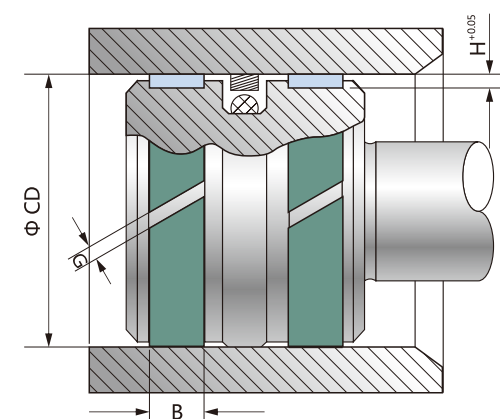


图1 Table 1

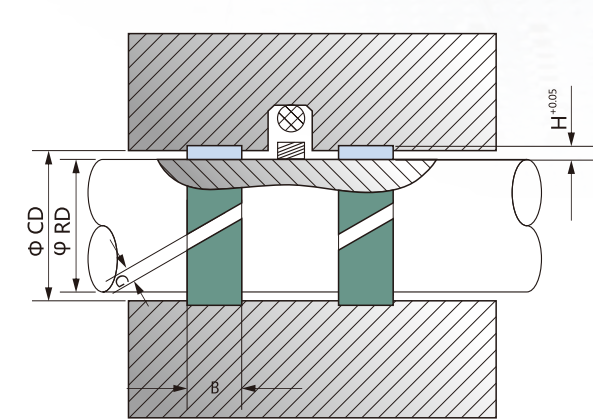


图2 Table 2

DFG产品规格

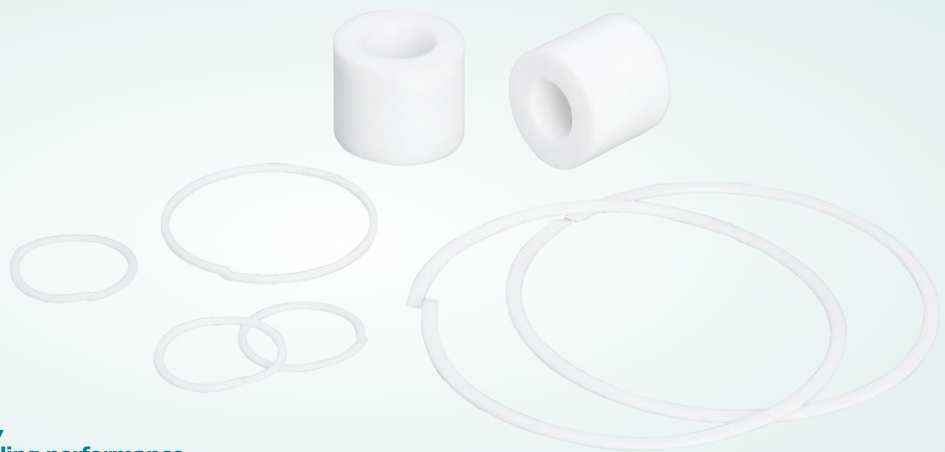
DFG PRODUCT SPECIFICATIONS

宽度 mm B	公差 mm TOI	厚度 mm H	公差 mm TOI	每盘长度 m L	宽度 mm B	公差 mm TOI	厚度 mm H	公差 mm TOI	每盘长度 m L
6.1	0 -0.20	2.5	0 -0.05	10.5	6	0 -0.20	2	0 -0.05	13
7.9	0 -0.20	2.5	0 -0.05	10.5	8	0 -0.20	2	0 -0.05	13
9.5	0 -0.20	2.5	0 -0.05	10.5	8	0 -0.20	3	0 -0.05	8.7
14.8	0 -0.20	2.5	0 -0.05	10.5	10	0 -0.20	3	0 -0.05	8.7
19.5	0 -0.20	2.5	0 -0.05	10.5	12	0 -0.20	3	0 -0.05	8.7
24.5	0 -0.20	2.5	0 -0.05	10.5	16	0 -0.20	3	0 -0.05	8.7
29.5	0 -0.20	2.5	0 -0.05	10.5	20	0 -0.20	3	0 -0.05	8.7



DF-101 氟塑料

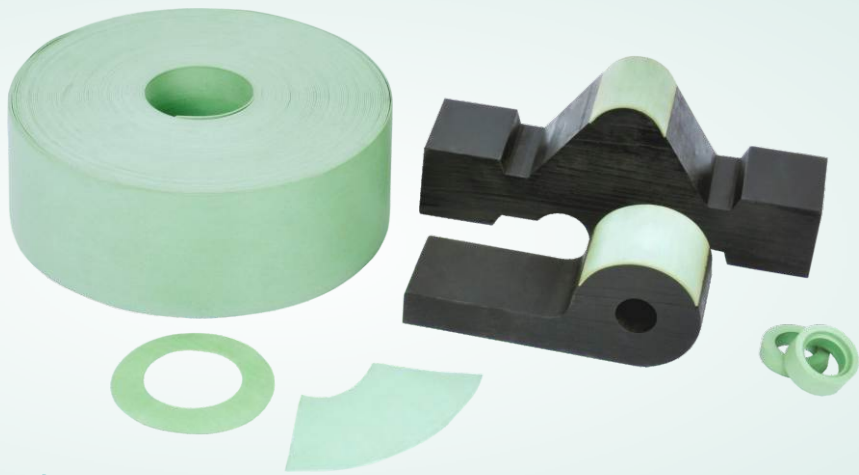
DF-101 FLUOROPLASTIC



化学稳定性高
弹性较大、密封效果好
High chemical stability,
elasticity and good sealing performance

DF-102 改性氟塑料

DF-102 MODIFIED FLUORINATED POLYMER



延伸率优良
耐磨、密封性能好
Excellent Elongation,
wear resistance and sealing performance

材料介绍与特性

DF-101具有突出的电性能，不粘性，高度的化学稳定性及耐
高低温（-250℃ ~ +260℃）。DF-101的瞬间回复特性（弹
性）较大，密封效果好。

INTRODUCTION ADN PROPERTIES OF THE MATERIAL

DF-101 has excellent electrical and non-adhesive properties,high chemical stability, and
temperature resistance (from -250°C to +260°C). Due to its high elasticity, DF-101 has a
good sealing performance.

典型应用

适用于作电子电气工业中的绝缘材料，食品化
工机械防粘，耐腐蚀以及静密封件和垫片等。

TYPICAL APPLICATION

It can be adopted in the electric or electronic industry's
insulation, foodstuff or chemical machinery's adhesive
resistance, and as static sealing parts or corrosion resistant
gaskets.



材料介绍与特性

DF-102是由无机非金属材料填充改性而成。具有优良的延伸率，可与
橡胶复合使用。它在水润滑条件下与不锈钢配对摩擦时耐磨好。

INTRODUCTION AND PROPERTIES OF THE MATERIAL

As a kind of nonmetallic material filled and modified, DF-102 has excellent
elongation, can be applied compositely with rubber, and has good fit wear
resistance with stainless steel under water lubrication condition.

典型应用

特别适用作为水下工作的机械零件或水电站
中的水工闸门密封条。

TYPICAL APPLICATION

Especially suitable to be used as sealing strips for
components work underwater or for hydropower
stations' hydraulic gates.



技术参数 TECHNICAL PARAMETERS

材料型号 Material Type	颜色 Color	密度 Density (g/cm ³)	线胀系数 Linear thermal expansion (x10 ⁻⁵)	抗拉强度 Tensile strength (MPa)	延伸率 Elongation (%)	抗压强度 Compressive strength (MPa)	弯曲强度 Bending Strength (MPa)	冲击强度 无缺口 Impact Strength\ without Notch (KJ/m ²)	摩擦磨损性能(干摩擦) Friction and Wear Properties (Dry Friction)		
			40-120℃						摩擦系数 Coefficient of friction	磨痕宽度 Wear Scar Width (mm)	磨损量 Wear Loss (mm ³)
DF-101	白色 White	2.1-2.2	10-12	20-30	>250	12	11-14	16	<0.1	≥20	≥254

技术参数 TECHNICAL PARAMETERS

材料型号 Material Type	颜色 Color	密度 Density (g/cm ³)	线胀系数 Liner thermal expansion factor (x10 ⁻⁵)		抗拉强度 Tensile strength (MPa)	延伸率 Elongation (%)	抗压强度 Compressive strength (MPa)	弯曲强度 Bending Strength (MPa)	冲击强度 无缺口 Impact Strength without Notch (KJ/m ²)	摩擦磨损性能(干摩擦) Friction and Wear Properties (Dry Friction)		
			0-40℃	40-120℃						摩擦系数 Coefficient of friction	磨痕宽度 Wear Scar Width (mm)	磨损量 Wear Loss (mm ³)
DF-102	绿色 Green	2.3	10.7	6.9	17.5	>150	20-25	25-30	11	< 0.21	< 5.2	4.1



DF-103 改性氟塑料

DF-103 MODIFIED FLUORINATED POLYMER

导热性好、抗压
耐磨、吸震、抗咬伤

High thermal conductivity,
excellent crushing resistance, wear
resistance, shock absorption and
anti-grinding performance.



材料介绍与特性

DF-103中的金属及其它无机填充料含量较高，具有导热性好，抗压强度高，刚性优良，尺寸稳定，耐磨等特点，可在无油或边界润滑条件下正常工作，而且有吸震，抗咬伤等特性。

INTRODUCTION AND PROPERTIES OF THE MATERIAL

With high filling content of metallic and nonmetallic materials, DF-103 has good thermal conductivity, high compressive strength, good rigidity, stable dimension, and wear resistance properties, and can work oil-free or boundary lubrication condition with shock-absorbing and anti-grinding characteristics.

典型应用

DF-103是作为在高温高压下工作的密封材料，如热采油密封元件、垫片等的理想材料。

TYPICAL APPLICATION

As a kind of seal material can work under high temperature and pressure, DF-103 can be made into ideal seal parts or gaskets used in thermal oil recovery.



技术参数 TECHNICAL PARAMETERS

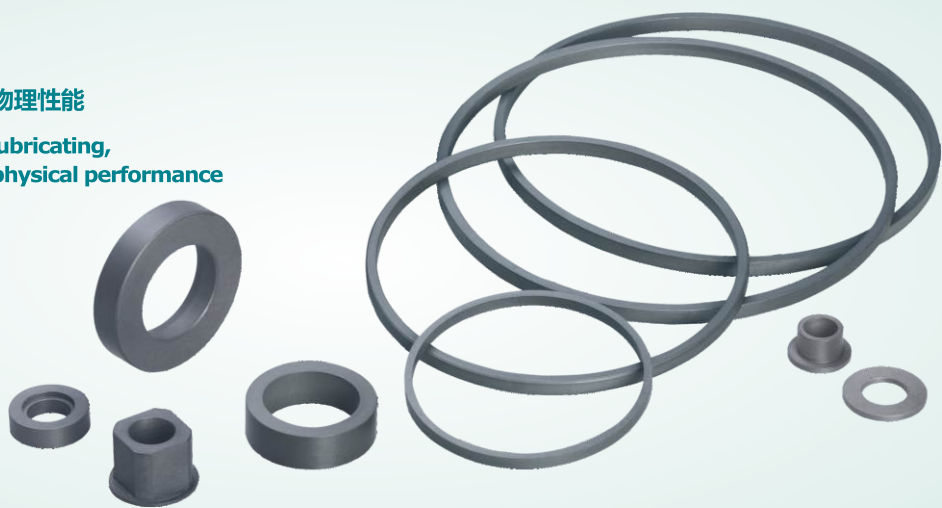
材料型号 Material Type	颜色 Color	密度 Density (g/cm³)	线胀系数 Liner thermal Expansion factor (x10 ⁻⁵)	抗拉强度 Tensile strength (MPa)	延伸率 Elongation (%)	抗压强度 Compressive strength (MPa)	弯曲强度 Benging Strength (MPa)	冲击强度 无缺口 Impact Strength without Notch (KJ/m²)	摩擦磨损性能 (干摩擦) Friction and Wear properties (Dry Friction)		
			40-120°C						摩擦系数 Coefficient of Friction	磨痕宽度 Wear Scar Width (mm)	磨损量 Wear Loss (mm³)
DF-103	墨绿色 Dark green	2.6	7.5	13	>100	26	25	>20	0.11	5.0	3.7

DF-104 改性氟塑料

DF-104 MODIFIED FLUORINATED POLYMER

耐磨自润滑、良好机械物理性能

Wear resistance, self-lubricating,
good mechanical and physical performance



材料介绍与特性

DF-104采用聚四氟乙烯添加润滑材料及耐磨材料，具有优异的耐磨自润滑特性及良好的机械物理性能，产品使用领域比较广泛。

INTRODUCTION AND PROPERTIES OF THE MATERIAL

DF-104 is made from PTFE plus lubricants and wear-resistant material, with the quality of excellent wear-resistance, self-lubricating performance, and fabulous physical properties. It is widely used in various industries.

典型应用

已被广泛应用作衬套、轴承及保持器、液压缸斯特封、格莱圈、无油润滑压缩机活塞环、支承环及填料函、高速机械密封环、滑条及滑块以及航空、航天工业中的自润滑耐磨摩擦零部件等。

TYPICAL APPLICATION

Nowadays, it has been widely used in manufacturing bushings, bearings, bearing supporters, step seals, glyd rings for hydraulic cylinders, oil-free lubrication compressor piston rings, support rings, stuffing boxes, high-speed mechanical seal rings, runners and the self-lubricating, wear-resistant components used in the aerospace industry.



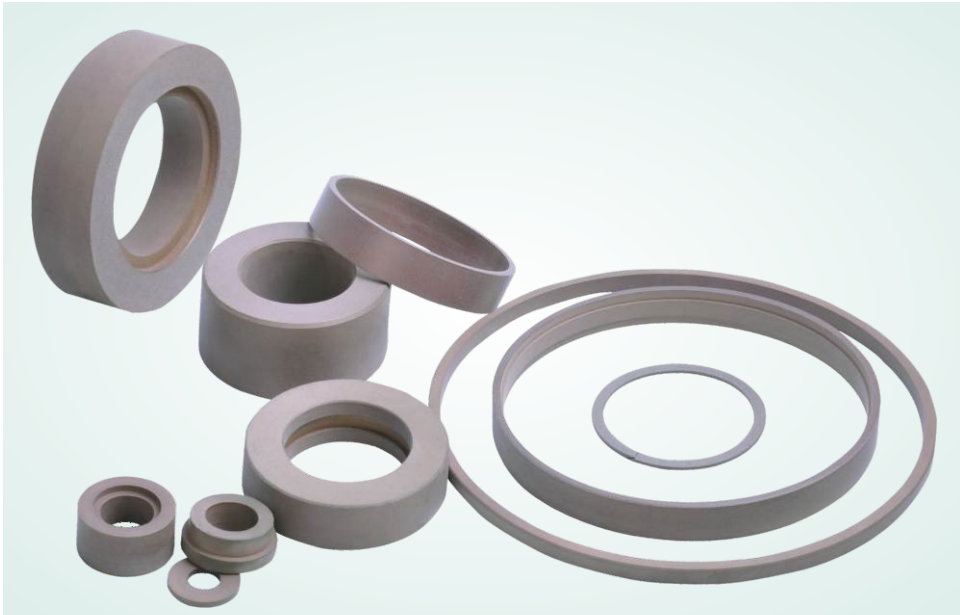
技术参数 TECHNICAL PARAMETERS

材料型号 Material Type	颜色 Color	密度 Density (g/cm³)	线胀系数 Liner thermal expansion factor (x10 ⁻⁵)			抗拉强度 Tensile strength (MPa)	延伸率 Elongation (%)	抗压强度 Compressive strength (MPa)	弯曲强度 Bending Strength (MPa)	冲击强度 无缺口 Impact Strength without Notch (KJ/m²)	摩擦磨损性能(干摩擦) Friction and Wear Properties (Dry Friction)		
			0-40°C	40-120°C	120-160°C						摩擦系数 Coefficient of friction	磨痕宽度 Wear Scar Width (mm)	磨损量 Wear Loss (mm³)
DF-104	黑色 Black	2.6	10.5	7.0	8.7	17	150	30-35	20	>15	<0.14	<4.5	<2.6



DF-105 改性氟塑料

DF-105 MODIFIED FLUORINATED POLYMER



材料介绍与特性

在DF-105材料中含有大量的金属填充改性剂。由于金属含量高，因此，其导热性能特别好，尺寸稳定且耐磨，是DF型系列材料中抗压强度最好的一种。

INTRODUCTION AND PROPERTIES OF THE MATERIAL

Containing lots of metallic filling and modifiers, DF-105 has high metal content, so it has excellent heat conduction performance, stable dimension, is abrasion-proof. It is the type with highest compressive strength among all DF series materials.

典型应用

它适用作PV值要求较高 ($\geq 20\text{Kg.M/cm}^2.\text{s}$) 工况条件下工作的摩擦零部件。如液压缸密封环、支承环、大型阀门密封面以及轴衬等。

TYPICAL APPLICATION

It is suitable to be used in manufacturing rubbing parts work in high PV condition ($\geq 20\text{Kg.M/cm}^2.\text{s}$), like seal/support rings on hydraulic cylinders, sealing surfaces for large valves, and axle bushings.



技术参数 TECHNICAL PARAMETERS

材料型号 Material Type	颜色 Color	密度 Density (g/cm ³)	线胀系数 Liner thermal expansion factor (x10 ⁻⁵)	抗拉强度 Tensile strength (MPa)	延伸率 Elongation (%)	抗压强度 Compressive strength (MPa)	弯曲强度 Bending Strength (MPa)	冲击强度 无缺口 Impact Strength without Notch (KJ/m ²)	摩擦磨损性能(干摩擦) Friction and Wear Properties (Dry Friction)		
			40-120°C						摩擦系数 Coefficient of friction	磨痕宽度 Wear Scar Width (mm)	磨损量 Wear Loss (mm ³)
DF-105	棕黄色 Brownish yellow	3.1-4.0	5.0-8.5	20-25	>200	40-50	35-40	20-30	0.17-0.20	<6	6.3-10.1

DF系列 车削软带

DF SERIES TURNING SOFT TAPE



材料介绍与特性

DF系列车削软带是以超细PTFE树脂为基材，经填充各种金属和无机非金属材料改性加工而成，多种优良的配方使其具有优异的耐磨自润滑特性，良好的延伸率，较好的导热性和抗压强度。可在少油和无油工况条件及水润滑下使用。经表面活化处理后可与橡胶、金属和其他非金属材料粘接。

INTRODUCTION AND PROPERTIES OF THE MATERIAL

With ultra-refined PTFE substrate, modified and processed by filling various metallic and inorganic non-metallic materials, the material have excellent anti-wear and self-lubricating properties, good elongation percentage, thermal conductivity, and compressive strength basing on many good formulas. It can be used under working conditions with less or no oil, or with water lubrication, and can be adhered to rubbers, metals, or nonmetal materials after surface activation treatment.

典型应用

广泛应用于汽车避震器活塞环、加油机活塞皮碗，各种需要自润滑、耐磨、耐腐蚀、耐油的垫圈、垫片和其他机械零部件的表面摩擦材料。

TYPICAL APPLICATION

It is widely used in auto shock absorbers' piston rings, oiling machines' piston leather bowls and as gaskets or surface friction materials self-lubricating, wear resistant, abrasion resistant and oil proof.



DF车削软带产品规格 PRODUCT SPECIFICATION

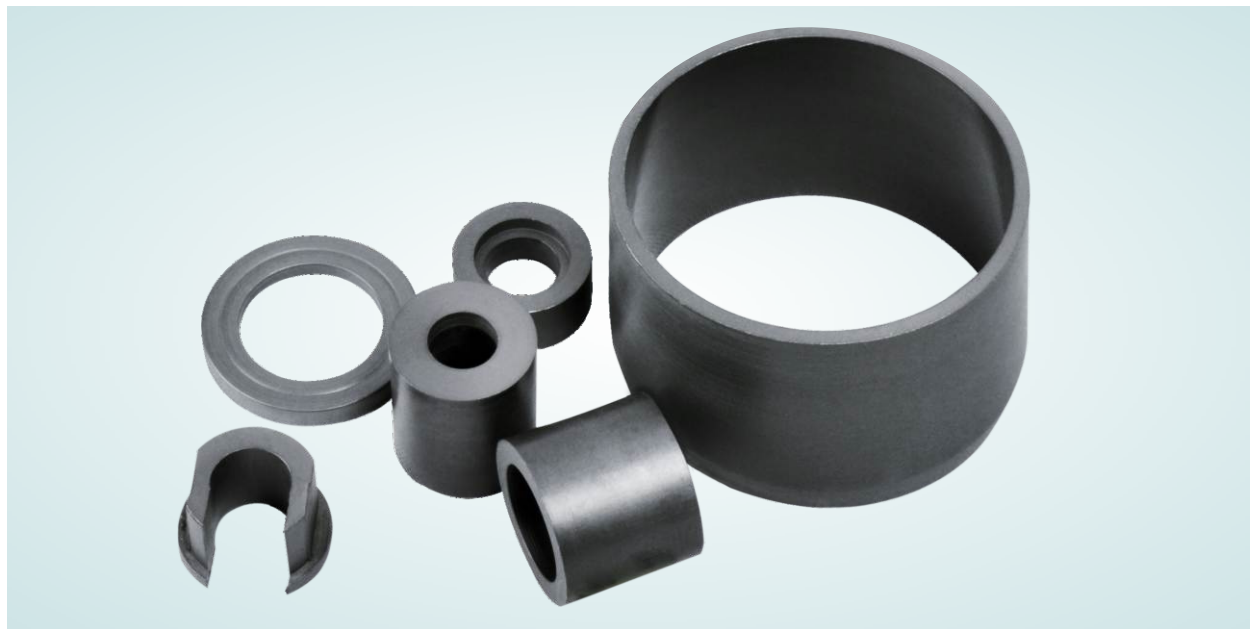
厚度 Thickness (mm)	宽度 Width (mm)
0.2-4.0	30-300

特殊规格可定做加工
We also offer custom designed products made to your specifications



DF系列 自润滑氟塑料轴承

DF SERIES SELF-LUBRICATING FLUOROPLASTIC BEARING



典型应用

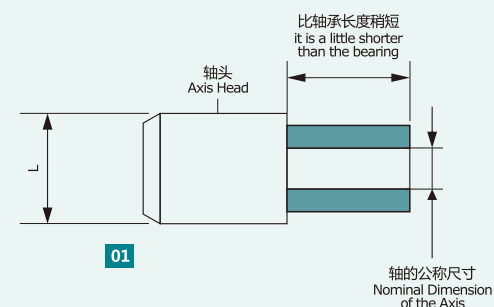
- 01 大型制氧机械
- 02 工业锅炉
- 03 气体设备
- 04 液压设备

TYPICAL APPLICATION

- 01 Large oxygen generator
- 02 Industrial boiler
- 03 Gas equipment
- 04 Hydraulic equipment



轴承装配 BEARING ASSEMBLING



材料介绍与特性

DF型轴承具有优异的使用特性和经济效果。

- 01 可在无油润滑条件下长期使用。PV值可达4m/s.Kg/cm²。短时使用PV值可达到8m/s.Kg/cm²。
- 02 适用于在有腐蚀介质和高低温(-250°C ~ +260°C)工作条件下的全无油润滑摩擦零部件。
- 03 防止轴承在频繁启动和停机情况下的摩擦磨损。
- 04 应用作摇摆或往复运动下的轴承、支承、磨损小且无爬行现象。
- 05 减轻机器自重，节约能耗，价格低廉。

DF-L系列轴承系将DF软带按轴承直径计算圆周长所需长度裁剪成斜开口或直开口形成的衬套，衬于带有挡唇的金属短套内。衬套在金属外套内是可自由转动的。

INTRODUCTION AND PROPERTIES OF THE MATERIAL

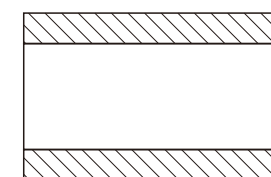
DF bearings have excellent using characteristics and economical effects.

- 01 They can be used in oil-free lubrication for long term, with PV limit value of 4m/s.Kg/cm². And their PV limit value in short term usage can reach 8m/s.Kg/cm².
- 02 They are suitable to be used in oil-free lubricating rubbing parts work under condition of corrosion medium environment and extreme temperature(from -250°C to +260°C).
- 03 They can avoid the bearings' friction and wear of frequent start and stop.
- 04 Used as the bearings or supporting bearings with reciprocating or oscillating movement, they bring no crawling phenomenon and less abrasion.

DF-L series bearings are bearings equipped with bevel/straight joint bushings made of DF soft tapes, with a length equal to the bearings' circumference calculated according to their diameter. The bushing is lined in the short metallic sleeve with block, and can move freely inside the metallic sleeve.

我公司生产的DF轴承有四个系列（详见后面见附表）

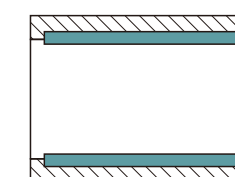
THERE ARE FOUR SERIES DF BEARINGS (SEES THE ATTACHED LISTS)



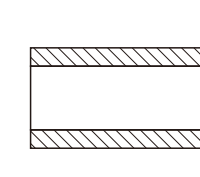
01
衬套DF-P系列
Bushed Bearings, DF-P Series



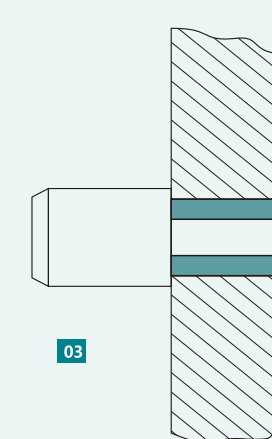
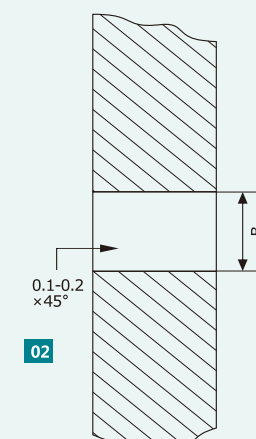
02
推力轴承DF-T系列
Thrust Bearings, DF-T Series



03
衬里轴承DF-L系列
Lined Bearings, DF-L Series



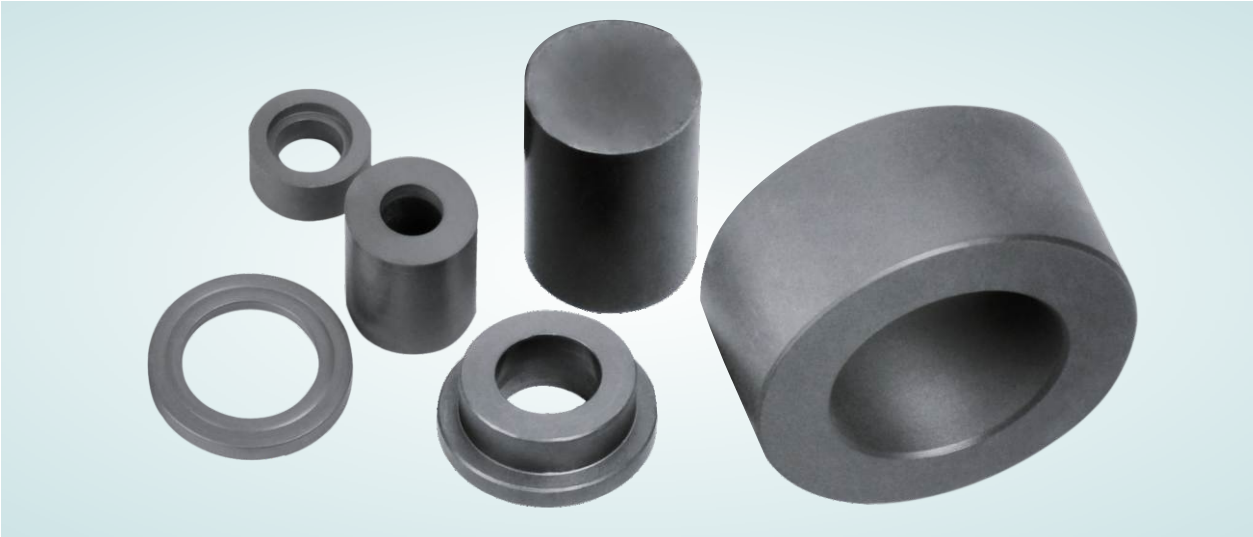
04
法兰(翻边)轴承DF-F系列
Flange Bearings, DF-F Series





DF系列 自润滑氟塑料轴承

DF SERIES SELF-LUBRICATING FLUOROPLASTIC BEARING



自润滑氟塑料轴承特性

- 01自润滑氟塑料轴承适用于无法加油或很难加油的场所，可在使用时不保养或少保养。
- 02耐磨性能好，摩擦系数小，使用寿命长。
- 03有适量的弹塑性，能将压力分布在较宽的接触面上，提高轴承的承载能力。
- 04静动摩擦系数相近，能消除低速下的爬行，从而保证机械的工作精度。
- 05能使机械减少振动、降低噪音、防止污染，改善劳动条件。
- 06在运转过程中能形成转移膜，起到保护对磨轴的作用，无咬轴现象。
- 07对于磨轴的硬度要求低，未经调质处理的轴都可使用，从而降低了相关零件的加工难度。

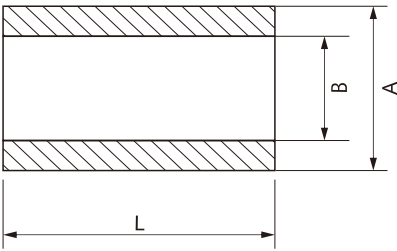
Characteristic of DF series self-lubricating fluoroplastic bearing

- 01 DF series self-lubricating fluoroplastic bearing can apply to no fuel or difficult to refuel places, can be used without maintenance or less maintenance.
- 02 Good wear resistance, small friction coefficient, long service life.
- 03 With the right amount of elastic-plastic, the pressure distributes in a wide contact surface, improve the bearing capacity.
- 04 Static and dynamic friction coefficient are similar, can eliminate the low-speed crawling, so as to ensure the accuracy of the mechanical work.
- 05 Can reduce the mechanical vibration, reduce noise, prevent pollution, improve working conditions.
- 06 The transfer membrane can be formed in the process of operation, to protect the grinding shaft from getting stuck.
- 07 The request hardness of the shaft is low, even the shaft without quenching can be used, thereby reducing the processing difficulty of the relevant parts .

DF-P滑动轴承尺寸及配合公差 FIT-TOLERANCE AND DIMENSION OF THE DF-P SLIDING BEARINGS

单位Unit : mm

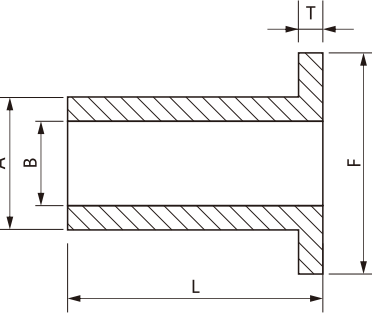
公称尺寸 Nominal Dimension 内径X外径	内径(I.D) (B)	外径(O.D) (A)	座孔内径 (H)	配对轴径 (R)	推荐长度 (L)
12×17	12 ^{+0.14 +0.08}	17 ^{+0.07 +0.02}	17 ^{+0.018 0}	12 ^{0 -0.018}	12
15×20	15 ^{+0.15 +0.10}	20 ^{+0.07 +0.02}	20 ^{+0.021 0}	15 ^{0 -0.018}	12
20×25	20 ^{+0.20 +0.13}	25 ^{+0.08 +0.03}	25 ^{+0.021 0}	20 ^{0 -0.021}	20
25×31	25 ^{+0.21 +0.13}	31 ^{+0.08 +0.03}	31 ^{+0.023 0}	25 ^{0 -0.021}	25
30×36	30 ^{+0.21 +0.13}	36 ^{+0.08 +0.03}	36 ^{+0.023 0}	30 ^{0 -0.021}	30
35×41	35 ^{+0.22 +0.14}	41 ^{+0.08 +0.03}	41 ^{+0.023 0}	35 ^{0 -0.025}	35
40×46	40 ^{+0.22 +0.14}	46 ^{+0.08 +0.03}	46 ^{+0.023 0}	40 ^{0 -0.025}	40
50×57	50 ^{+0.24 +0.16}	57 ^{+0.08 +0.03}	57 ^{+0.030 0}	50 ^{0 -0.025}	50
60×67	60 ^{+0.26 +0.16}	67 ^{+0.10 +0.04}	67 ^{+0.030 0}	60 ^{0 -0.030}	60
70×78	70 ^{+0.31 +0.21}	78 ^{+0.10 +0.04}	78 ^{+0.030 0}	70 ^{0 -0.030}	70
80×88	80 ^{+0.31 +0.21}	88 ^{+0.10 +0.04}	88 ^{+0.035 0}	80 ^{0 -0.030}	80
100×110	100 ^{+0.36 +0.26}	110 ^{+0.11 +0.05}	110 ^{+0.035 0}	100 ^{0 -0.035}	100
120×130	120 ^{+0.37 +0.27}	130 ^{+0.12 +0.05}	130 ^{+0.035 0}	120 ^{0 -0.035}	120



DF-F翻边轴承尺寸及配合公差 FIT-TOLERANCE AND DIMENSION OF THE DF-F FLANGE BEARINGS

单位Unit : mm

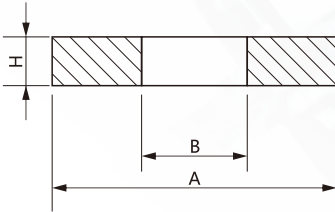
公称尺寸 Nominal Dimension 内径X外径	内径(I.D) (B)	外径(O.D) (A)	座孔内径 (H)	配对轴径 (R)	法兰外径 (F±0.2)	法兰厚度 (T±0.1)	推荐长度 (L±0.2)
5×9	5 ^{+0.09 +0.04}	9 ^{+0.06 +0.02}	9 ^{+0.015 0}	5 ^{0 -0.015}	14	2.0	5
6×11	6 ^{+0.10 +0.05}	11 ^{+0.06 +0.02}	11 ^{+0.015 0}	6 ^{0 -0.015}	16	2.5	6
10×15	10 ^{+0.12 +0.07}	15 ^{+0.07 +0.02}	15 ^{+0.018 0}	10 ^{0 -0.018}	22	3.0	10
15×20	15 ^{+0.15 +0.10}	20 ^{+0.07 +0.02}	20 ^{+0.018 0}	15 ^{0 -0.018}	28	3.0	15
20×25	20 ^{+0.18 +0.12}	25 ^{+0.08 +0.03}	25 ^{+0.021 0}	20 ^{0 -0.021}	35	3.0	20
25×31	25 ^{+0.20 +0.14}	31 ^{+0.08 +0.03}	31 ^{+0.023 0}	25 ^{0 -0.021}	41	3.0	25
30×36	30 ^{+0.21 +0.14}	36 ^{+0.08 +0.03}	36 ^{+0.023 0}	30 ^{0 -0.021}	46	3.5	30
40×46	40 ^{+0.22 +0.14}	46 ^{+0.08 +0.03}	46 ^{+0.025 0}	40 ^{0 -0.025}	57	3.5	40
50×57	50 ^{+0.24 +0.16}	57 ^{+0.08 +0.03}	57 ^{+0.025 0}	50 ^{0 -0.025}	68	3.5	50
60×67	60 ^{+0.26 +0.16}	67 ^{+0.10 +0.04}	67 ^{+0.030 0}	60 ^{0 -0.030}	78	3.5	60
70×78	70 ^{+0.28 +0.17}	78 ^{+0.10 +0.04}	78 ^{+0.030 0}	70 ^{0 -0.030}	90	3.5	70
80×88	80 ^{+0.31 +0.20}	88 ^{+0.10 +0.04}	88 ^{+0.035 0}	80 ^{0 -0.030}	100	3.5	80



DF-T推力轴承尺寸及配合公差 FIT-TOLERANCE AND DIMENSION OF THE DF-T THRUST BEARINGS

单位Unit : mm

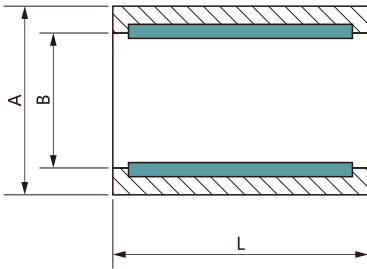
公称尺寸 Nominal Dimension 内径X外径	内径(I.D) (B)	外径(O.D) (A)	推荐长度 (L±0.6)
8×18	8 ^{+0.12 0}	18±0.07	1.5
10×12	10 ^{+0.12 0}	20±0.07	2.0
12×22	12 ^{+0.12 0}	22±0.07	2.0
15×28	15 ^{+0.12 0}	28±0.07	2.5
20×35	20 ^{+0.12 0}	35±0.07	2.5
30×50	30 ^{+0.14 0}	50±0.08	3.0
40×65	40 ^{+0.14 0}	65±0.08	3.0
50×80	50 ^{+0.14 0}	80±0.08	3.0
60×90	60 ^{+0.15 0}	90±0.08	3.5
80×120	80 ^{+0.20 0}	120±0.10	3.5



DF-L衬里轴承尺寸及配合公差 FIT-TOLERANCE AND DIMENSION OF THE DF-L LINED BEARINGS

单位Unit : mm

公称尺寸 Nominal Dimension 内径X外径	配对轴径 (R)	配对座孔 直径(H)	衬里厚度 (t±0.03)	衬里总厚 (t±0.04)	推荐长度 (L±0.2)
8×12	8 ^{0 -0.016}	12 ^{+0.15 0}	0.8	2.0	8
12×16	12 ^{0 -0.018}	16 ^{+0.18 0}	1.0	2.0	12
16×20	16 ^{0 -0.021}	20 ^{+0.21 0}	1.0	2.0	16
20×24	20 ^{0 -0.021}	24 ^{+0.21 0}	1.0	2.0	20
25×30	25 ^{0 -0.021}	30 ^{+0.25 0}	1.2	2.5	25
30×35	30 ^{0 -0.021}	35 ^{+0.25 0}	1.2	2.5	30
40×45	40 ^{0 -0.025}	45 ^{+0.30 0}	1.2	2.5	40
50×55	50 ^{0 -0.025}	55 ^{+0.30 0}	1.2	2.5	50





DF系列 改性聚四氟乙烯半成品

DF SERIES MODIFIED SEMI-FINISHED PTFE



材料介绍与特性

金泰公司在具有20多年生产改性聚四氟乙烯制品历史并积累了丰富的生产经验的情况下，开发了多种配方的改性聚四氟乙烯模压半成品。如各种用于密封件的筒料、管料、棒料等，也可根据用户提供的配方进行定制，以最大的限度满足用户的需求。

INTRODUCTION AND PROPERTIES OF THE MATERIAL

With 20 years history in producing modified PTFE products, Kintowe Company has accumulated rich experience in production, and developed semi-finished moulding products of modified PTFE in various formulas, such as tube materials, pipe materials and rod materials used as sealing parts. We can also produce according to customers' formulas, providing the best service to meet customers' requirements.

典型应用

- 01 四氟密封件半成品
- 02 各种配方四氟材料的轴承、衬套、密封环、垫片、摩擦环等零部件半成品。

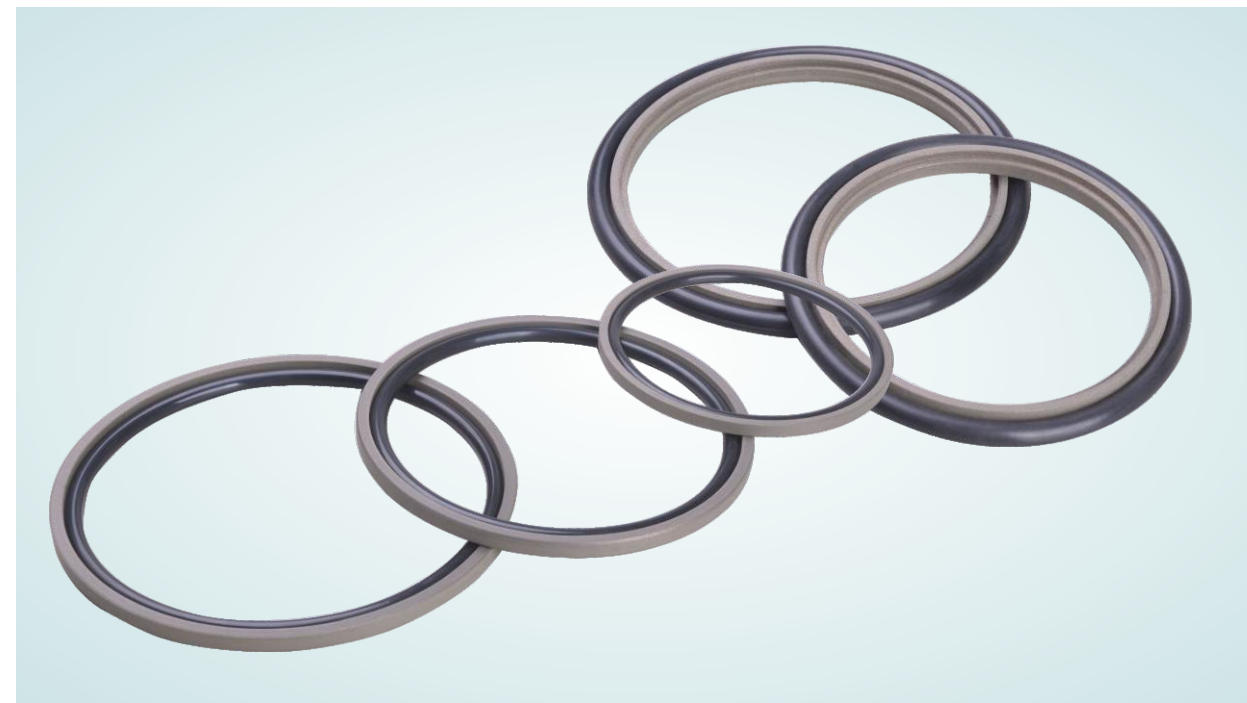
TYPICAL APPLICATION

- 01 Semi-finished products of PTFE sealing parts
- 02 All components made from various formulas PTFE, such as bearings, bushings, seal rings, washers, friction rings and so on.



DF系列 液压系统改性聚四氟乙稀密封元件

DF SERIES MODIFIED PTFE SEALING COMPONENTS FOR HYDRAULIC SYSTEMS



材料介绍与特性

本公司在积聚20多年改性聚四氟乙烯制品生产加工方面经验的基础上，结合当前液压系统的密封特点和要求。开发了各种液压系统的密封元件，如液压缸活塞和活塞杆用的各种规格的格莱圈、斯特封、纳污环、挡圈等。产品具有耐磨性好、耐油、耐腐蚀性能，可在0~40MPa压力下应用。良好的耐温性，可在-30℃~+150℃环境下使用(取决于O型圈的材质)。

INTRODUCTION AND PROPERTIES OF THE MATERIAL

On the basis of experiences of production and processing of modified PTFE products by more than 20 years accumulation, combing the sealing characteristics and requirements of current hydraulic system, our company has developed a variety of sealing components for hydraulic system, such as all kinds of glyd rings, step seals, dirt retainers, fencing rings etc used for hydraulic cylinder pistons and piston rods. With good abrasion resistance, oil proof and erosion resistance, the products can be used under the pressure from 0 to 40MPa. As its good temperature tolerance, it can be used in an environment from -30°C to +150°C. (Depending on the material of the O-ring)

典型应用

- 01 工程机械油缸
- 02 各种普通机械油缸及液压系统

TYPICAL APPLICATION

- 01 Engineering mechanical cylinder
- 02 A variety of general mechanical cylinders and hydraulic systems



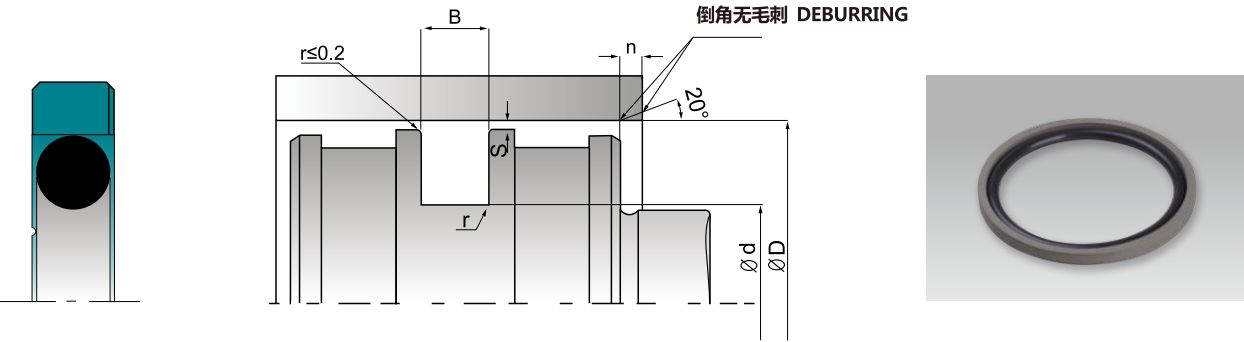


DF系列 液压系统改性聚四氟乙稀密封元件

DF SERIES MODIFIED PTFE SEALING COMPONENTS FOR HYDRAULIC SYSTEMS

格莱圈规格

SPECIFICATION FOR GLYD RINGS



单位Unit : mm

JT NO	D(H8)	d(h9)	B(-0/+0.2)	r	n	O-Ring
JT 010-005.1	10	5.1	2.2	0.4	3	4.76x1.78
JT 012-007.1	12	7.1	2.2	0.4	3	6.75x1.78
JT 015-007.5	15	7.5	3.2	0.6	4.5	7.59x2.62
JT 016-008.5	16	8.5	3.2	0.6	4.5	7.59x2.62
JT 020-012.5	20	12.5	3.2	0.6	4.5	12.37x2.62
JT 025-014	25	14	4.2	1	6	13.87x3.53
JT 025-017.5	25	17.5	3.2	0.6	4.5	17.12x2.62
JT 032-021	32	21	4.2	1	6	20.22x3.53
JT 032-024.5	32	24.5	3.2	0.6	4.5	23.47x2.62
JT 035-030.1	35	30.1	2.2	0.4	3	29.87x1.78
JT 035-027.5	35	27.5	3.2	0.6	4.5	26.64x2.62
JT 040-032.5	40	32.5	3.2	0.6	6	31.42x2.62
JT 040-029	40	29	4.2	1	6	28.17x3.53
JT 040-024.5	40	24.5	6.3	1.3	8	23.17x5.33
JT 045-034	45	34	4.2	1	6	32.92x3.53
JT 048-037	48	37	4.2	1	6	36.10x3.53
JT 050-039	50	39	4.2	1	6	37.69x3.53
JT 055-044	55	44	4.2	1	6	44.04x3.53
JT 060-044.5	60	44.5	6.3	1.3	8	43.82x5.33
JT 060-049	60	49	4.2	1	6	47.22x3.53
JT 063-052	63	52	4.2	1	6	50.39x3.53
JT 063-047.5	63	47.5	6.3	1.3	8	47x5.33
JT 063-055.5	63	55.5	3.2	0.6	4.5	55.25x2.62
JT 065-049.5	65	49.5	6.3	1.3	8	48.50x5.33
JT 065-054	65	54	4.2	1	6	53.57x3.53
JT 068-057	68	57	4.2	1	6	56.74x3.53
JT 070-054.5	70	54.5	6.3	1.3	8	53.34x5.33
JT 070-059	70	59	4.2	1	6	56.74x3.53
JT 075-064	75	64	4.2	1	6	63.09x3.53
JT 075-059.5	75	59.5	6.3	1.3	8	56.52x5.33
JT 080-059	80	59	8.1	1.8	10.5	58x6.99
JT 080-064.5	80	64.5	6.3	1.3	8	62.87x5.33
JT 080-069	80	69	4.2	1	6	66.27x3.53
JT 085-064	85	64	8.1	1.8	10.5	63x7
JT 085-074	85	74	4.2	1	6	73.03x3.53
JT 085-069.5	85	69.5	6.3	1.3	8	69.22x5.33
JT 090-074.5	90	74.5	6.3	1.3	8	72.40x5.33
JT 090-069	90	69	8.1	1.8	10.5	68.20x6.99
JT 095-079.5	95	79.5	6.3	1.3	8	78.74x5.33
JT 100-079	100	79	8.1	1.8	10.5	77x7
JT 100-089	100	89	4.2	1	6	88.50x3.53
JT 100-084.5	100	84.5	6.3	1.3	8	81.92x5.33
JT 105-089.5	105	89.5	6.3	1.3	8	88.27x5.33
JT 110-089	110	89	8.1	1.8	10.5	88x6.99
JT 110-099	110	99	4.2	1	6	98.02x3.53
JT 110-094.5	110	94.5	6.3	1.3	8	91.44x5.33
JT 115-094	115	94	8.1	1.8	10.5	92x7

单位Unit : mm

JT NO	D(H8)	d(h9)	B(-0/+0.2)	r	n	O-Ring
JT 115-099.5	115	99.5	6.3	1.3	8	97.79x5.33
JT 120-104.5	120	104.5	6.3	1.3	8	100.97x5.33
JT 120-099	120	99	8.1	1.8	10.5	97x7
JT 125-104	125	104	8.1	1.8	10.5	102x7
JT 125-114	125	114	4.2	1	6	113.90x3.53
JT 125-109.5	125	109.5	6.3	1.3	8	107.32x5.33
JT 130-109	130	109	8.1	1.8	10.5	107x7
JT 130-114.5	130	114.5	6.3	1.3	8	113.67x5.33
JT 140-119	140	119	8.1	1.8	10.5	116.84x6.99
JT 140-124.5	140	124.5	6.3	1.3	8	123.19x5.33
JT 140-129	140	129	4.2	1	6	126.60x3.53
JT 145-124	145	124	8.1	1.8	10.5	123.19x6.99
JT 150-129	150	129	8.1	1.8	10.5	126.37x6.99
JT 155-134	155	134	8.1	1.8	10.5	132.72x6.99
JT 160-139	160	139	8.1	1.8	10.5	135.89x6.99
JT 165-144	165	144	8.1	1.8	10.5	142.24x6.99
JT 170-149	170	149	8.1	1.8	10.5	148.59x6.99
JT 180-159	180	159	8.1	1.8	10.5	158.12x6.99
JT 185-164	185	164	8.1	1.8	10.5	161.90x6.99
JT 185-169.5	185	169.5	6.3	1.3	8	164.47x5.33
JT 190-169	190	169	8.1	1.8	10.5	164.47x6.99
JT 195-174	195	174	8.1	1.8	10.5	170.82x6.99
JT 200-179	200	179	8.1	1.8	10.5	177.17x6.99
JT 200-184.5	200	184.5	6.3	1.3	8	183.52x5.33
JT 205-184	205	184	8.1	1.8	10.5	183.52x6.99
JT 210-189	210	189	8.1	1.8	10.5	183.52x6.99
JT 215-194	215	194	8.1	1.8	10.5	189.87x6.99
JT 220-199	220	199	8.1	1.8	10.5	196.22x6.99
JT 225-204	225	204	8.1	1.8	10.5	202.57x6.99
JT 230-209	230	209	8.1	1.8	10.5	202.57x6.99
JT 240-219	240	219	8.1	1.8	10.5	215.27x6.99
JT 245-224	245	224	8.1	1.8	10.5	221.62x6.99
JT 250-229	250	229	8.1	1.8	10.5	227.97x6.99
JT 260-239	260	239	8.1	1.8	10.5	234.32x6.99
JT 265-244	265	244	8.1	1.8	10.5	240.67x6.99
JT 270-249	270	249	8.1	1.8	10.5	240.67x6.99
JT 275-254	275	254	8.1	1.8	10.5	247.00x6.99
JT 280-259	280	259	8.1	1.8	10.5	253.57x6.99
JT 300-279	300	279	8.1	1.8	10.5	278.77x6.99
JT 305-284	305	284	8.1	1.8	10.5	278.77x6.99
JT 310-289	310	289	8.1	1.8	10.5	278.77x6.99
JT 315-294	315	294	8.1	1.8	10.5	291.47x6.99
JT 320-295.5	320	295.5	8.1	1.8	12	291.47x6.99
JT 320-299	320	299	8.1	1.8	10.5	291.47x6.99
JT 325-304	325	304	8.1	1.8	10.5	297.88x6.99
JT 330-305.5	330	305.5	8.1	1.8	12	304.17x6.99
JT 340-315.5	340	315.5	8.1	1.8	12	316.87x6.99
JT 350-325.5	350	325.5	8.1	1.8	12	316.87x6.99
JT 360-335.5	360	335.5	8.1	1.8	12	329.57x6.99
JT 370-345.5	370	345.5	8.1	1.8	12	342.27x6.99
JT 380-355.5	380	355.5	8.1	1.8	12	354.90x6.99
JT 390-365.5	390	365.5	8.1	1.8	12	354.90x6.99
JT 400-375.5	400	375.5	8.1	1.8	12	367.67x6.99
JT 420-395.5	420	395.5	8.1	1.8	12	393.07x6.99
JT 430-405.5	430	405.5	8.1	1.8	12	405.26x6.99
JT 440-415.5	440	415.5	8.1	1.8	12	405.26x6.99
JT 450-425.5	450	425.5	8.1	1.8	12	417.96x6.99
JT 460-435.5	460	435.5	8.1	1.8	12	430.66x6.99
JT 470-445.5	470	445.5	8.1	1.8	12	443.36x6.99
JT 480-455.5	480	455.5	8.1	1.8	12	456.06x6.99
JT 500-475.5	500	475.5	8.1	1.8	12	468.76x6.99
JT 520-495.5	520	495.5	8.1	1.8	12	494.16x6.99
JT 530-505.5	530	505.5	8.1	1.8	12	494.16x6.99
JT 540-515.5	540	515.5	8.1	1.8	12	506.86x6.99
JT 550-525.5	550	525.5	8.1	1.8	12	506.86x6.99
JT 560-535.5	560	535.5	8.1	1.8	12	532.26x6.99
JT 580-555.5	580	555.5	8.1	1.8	12	532.26x6.99
JT 600-575.5	600	575.5	8.1	1.8	12	557.66x6.99

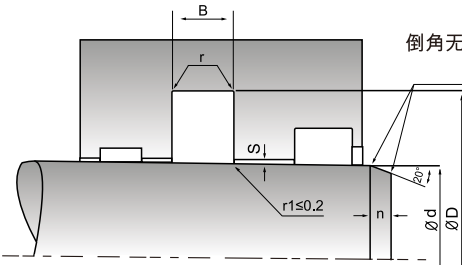
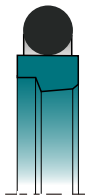


DF系列 液压系统改性聚四氟乙稀密封元件

DF SERIES MODIFIED PTFE SEALING COMPONENTS FOR HYDRAULIC SYSTEMS

斯特封规格

SPECIFICATION FOR STEP SEALS



倒角无毛刺 Deburring



单位Unit : mm

JT NO	d(f8)	D(H9)	B(-0/+0.2)	r	n	O-Ring
JT-008	8	12.9	2.2	0.4	2	9.66X1.78
JT-010	10	14.9	2.2	0.4	2	11.11X1.78
JT-012	12	19.3	3.2	0.6	3	13.95X2.62
JT-014	14	21.3	3.2	0.6	3	17.13X2.62
JT-016	16	23.3	3.2	0.6	3	18.72X2.62
JT-018	18	25.3	3.2	0.6	3	20.29X2.62
JT-018/1	18	22.9	2.2	0.4	2	18.77X1.78
JT-020	20	30.7	4.2	1	3.5	24.99X3.53
JT-020/1	20	27.3	3.2	0.6	3	22.22X2.62
JT-022	22	23.7	4.2	1	3.5	26.58X3.53
JT-022/1	22	29.3	3.2	0.6	3	25.07X2.62
JT-025	25	35.7	4.2	1	3.5	31.34X3.53
JT-025/1	25	32.3	3.2	0.6	3	28.25X2.62
JT-026	26	36.7	4.2	1	3.5	31.34X3.53
JT-028	28	38.7	4.2	1	3.5	32.92X3.53
JT-028/1	28	35.3	4.2	1	3	29.82X2.62
JT-030	30	40.7	4.2	1	3.5	34.52X3.53
JT-030/1	30	37.3	3.2	0.6	3	33.00X2.62
JT-032	32	42.7	4.2	1	3.5	36.09X3.53
JT-032/1	32	39.3	3.2	0.6	3	34.59X2.62
JT-035	35	45.7	4.2	1	3.5	37.69X3.53
JT-035/1	35	42.3	3.2	0.6	3	37.77X2.62
JT-036	36	46.7	4.2	1	3.5	40.87X3.53
JT-036/1	36	43.3	3.2	0.6	3	39.34X2.62
JT-038	38	48.7	4.2	1	3.5	40.87X3.53
JT-040	40	55.1	6.3	1.3	5.5	43.82X5.33
JT-040/1	40	50.7	4.2	1	3.5	44.45X3.53
JT-045	45	60.1	6.3	1.3	5.5	50.16X5.33
JT-045/1	45	55.7	4.2	1	3.5	50.39X3.53
JT-048	48	63.1	6.3	1.3	5.5	53.34X5.33
JT-048/1	48	58.7	4.2	1	3.5	50.80X3.53
JT-050	50	65.1	6.3	1.3	5.5	56.52X5.33
JT-050/1	50	60.7	4.2	1	3.5	53.57X3.53
JT-052	52	62.7	4.2	1	3.5	56.74X3.53
JT-052/1	52	67.1	6.3	1.3	5.5	56.52X5.35
JT-055	55	60.1	6.3	1.3	5.5	59.69X5.33
JT-056	56	71.1	6.3	1.3	5.5	62.87X3.53
JT-056/1	56	66.7	4.2	1	3.5	59.92X3.53
JT-060	60	75.1	6.3	1.3	5.5	66.04X5.33
JT-060/1	60	70.7	4.2	1	3.5	63.09X3.53
JT-063	63	78.1	6.3	1.3	5.5	69.22X5.33
JT-063/1	63	73.7	4.2	1	3.5	66.04X3.53
JT-065	65	80.1	6.3	1.3	5.5	69.22X5.33
JT-067	67	80.1	6.3	1.3	5.5	72.40X5.33
JT-068	68	80.1	6.3	1.3	5.5	72.40X5.33
JT-068/1	68	78.7	4.2	1	3.5	72.62X3.53
JT-070	70	85.1	6.3	1.3	5.5	75.57X5.33
JT-070/1	70	80.7	4.2	1	3.5	75.59X3.53
JT-073	73	88.1	6.3	1.3	5.5	78.74X5.33
JT-075	75	90.1	6.3	1.3	5.5	81.92X5.33
JT-080	80	95.1	6.3	1.3	5.5	85.09X5.33

单位Unit : mm

JT NO	d(f8)	D(H9)	B(-0/+0.2)	r	n	O-Ring
JT-080/1	80	90.7	4.2	1	3.5	85.32X3.53
JT-085	85	100.1	6.3	1.3	6	91.44X5.33
JT-090	90	105.1	6.3	1.3	6	94.67X5.33
JT-095	95	110.1	6.3	1.3	6	100.97X5.33
JT-095/1	95	115.1	8.1	1.8	7.5	104.14X6.99
JT-100	100	115.1	6.3	1.3	6	107.32X5.33
JT-100/1	100	110.7	4.2	1	3.5	104.37X3.53
JT-105	105	125.5	8.1	1.8	7.5	113.67X6.99
JT-105/1	105	120.1	6.3	1.3	6	110.49X5.33
JT-110	110	125.1	6.3	1.3	6	116.84X5.33
JT-110/1	110	130.5	8.1	1.8	7.5	116.84X6.99
JT-110/2	110	120.7	4.2	1	3.5	113.89X3.53
JT-115	115	130.1	6.3	1.3	6	120.02X5.33
JT-120	120	135.1	6.3	1.3	6	126.57X5.33
JT-125	125	140.1	6.3	1.3	6	130.18X5.33
JT-125/1	125	145.5	8.1	1.8	7.5	132.72X6.99
JT-130	130	145.1	6.3	1.3	6	135.89X5.33
JT-130/1	130	150.5	8.1	1.8	7.5	139.07X6.99
JT-135	135	150.1	6.3	1.3	6	137.70X5.33
JT-138	138	153.1	6.3	1.3	6	142.24X5.33
JT-140	140	155.1	6.3	1.3	6	145.42X5.33
JT-145	145	160.1	6.3	1.3	6	151.77X5.33
JT-150	150	165.1	6.3	1.3	6	151.77X5.33
JT-150/1	150	170.5	8.1	1.8	7.5	158.12X6.99
JT-155	155	170.1	6.3	1.3	6	161.30X5.33
JT-160	160	175.1	6.3	1.3	6	164.47X5.33
JT-160/1	160	180.5	8.1	1.8	7.5	164.47X6.99
JT-165	165	180.1	6.3	1.3	6	170.82X5.33
JT-170	170	185.1	6.3	1.3	6	177.17X5.33
JT-170/1	170	190.5	8.1	1.8	7.5	177.17X6.99
JT-175	175	190.1	6.3	1.3	6	177.17X5.33
JT-180	180	195.1	6.3	1.3	6	183.52X5.33
JT-185	185	200.1	6.3	1.3	6	189.87X5.33
JT-190	190	205.1	6.3	1.3	6	196.22X5.33
JT-192	192	207.1	6.3	1.3	6	196.22X5.33
JT-195	195	210.1	6.3	1.3	6	202.57X5.33
JT-200	200	220.5	8.1	1.8	7.5	208.92X6.99
JT-210	210	230.5	8.1	1.8	7.5	215.27X6.99
JT-215	215	235.5	8.1	1.8	7.5	227.97X6.99
JT-220	220	240.5	8.1	1.8	7.5	227.97X6.99
JT-225	225	245.5	8.1	1.8	7.5	240.67X6.99
JT-230	230	250.5	8.1	1.8	7.5	240.67X6.99
JT-235	235	255.5	8.1	1.8	7.5	240.67X6.99
JT-240	240	260.5	8.1	1.8	7.5	240.67X6.99
JT-245	245	265.5	8.1	1.8	7.5	253.57X6.99
JT-250	250	270.5	8.1	1.8	7.5	253.57X6.99
JT-260	260	284	8.1	1.8	8	266.07X6.99
JT-260/1	260	280.5	8.1	1.8	7.5	266.07X6.99
JT-270	270	294	8.1	1.8	8	278.77X6.99
JT-275	275	299	8.1	1.8	8	291.47X6.99
JT-280	280	304	8.1	1.8	8	291.47X6.99
JT-285	285	309	8.1	1.8	8	291.47X6.99
JT-290	290	314	8.1	1.8	8	297.88X6.99
JT-295	295	319	8.1	1.8	8	304.17X6.99
JT-300	300	324	8.1	1.8	8	316.78X6.99
JT-300/1	300	320.5	8.1	1.8	7.5	304.17X6.99
JT-300	300	324	8.1	1.8	8	316.87X6.99
JT-310	310	334	8.1	1.8	8	316.87X6.99
JT-320	320	344	8.1	1.8	8	329.57X6.99
JT-330	330	354	8.1	1.8	8	342.27X6.99
JT-340	340	364	8.1	1.8	8	354.97X6.99
JT-345	345	369	8.1	1.8	8	354.97X6.99
JT-350	350	374	8.1	1.8	8	354.9X6.99
JT-360	360	384	8.1	1.8	8	367.67X6.99
JT-370	370	394	8.1	1.8	8	380.37X6.99
JT-380	380	404	8.1	1.8	8	393.07X6.99
JT-390	390	414	8.1	1.8	8	405.26X6.99
JT-400	400	424	8.1	1.8	8	417.96X6.99
JT-405	405	429	8.1	1.8	8	417.96X6.99
JT-420	420	444	8.1	1.8	8	430.66X6.99
JT-430	430	454	8.1	1.8	8	443.36X6.99
JT-450	450	474	8.1	1.8	8	468.76X6.99
JT-460	460	484	8.1	1.8	8	468.76X6.99
JT-470	470	494	8.1	1.8	8	481.46X6.99
JT-480	480	504	8.1	1.8	8	494.16X6.99
JT-490	490	514	8.1	1.8	8	506.86X6.99
JT-500	500	524	8.1	1.8	8	506.86X6.99
JT-510	510	534	8.1	1.8	8	532.26X6.99
JT-520	520	544	8.1	1.8	8	532.26X6.99
JT-530	530	554	8.1	1.8	8	557.66X6.99
JT-550	550	574	8.1	1.8	8	582.68X6.99
JT-570	570	594	8.1	1.8	8	582.68X6.99