

埋地用聚乙烯（HDPE）结构壁管道系统：
聚乙烯缠绕结构壁管

Polyethylene structure-wall piping system for underground usage:
Polyethylene spirally enwound structure-wall pipes

XINGHE GROUP



江苏星河集团有限公司

JIANGSU XINGHE GROUP LIMITED COMPANY

企业简介

江苏星河集团有限公司座落在素有江中明珠、水上花园城市之称的长江第二岛市场中,地理位置得天独厚、交通便捷、环境优美。

江苏星河集团有限公司始创于1982年,现占地面积约8万平方米,建筑面积5.5万平方米,注册资金21000万元,现有在职职工580余人、中高级技术人员和管理人员150余人。江苏星河集团有限公司是中国塑协塑料管道专业委员会理事单位、全国塑料制品标准化技术委员会塑料管材、管件及阀门技术委员会委员单位、中国工程建设标准化协会会员单位、中国石化集团物资公司设备资源市场成员单位、中国石油天然气集团公司一级供应网络成员单位、国家化工工艺配管中心站定点生产企业,公司先后通过中国方圆标志认证委员会、ISO9001质量体系认证、ISO14001环境管理体系认证和GB/T28001职业健康安全管理体系认证。2005年塑料管材产品曾被国家质检总局授予国家免检产品,如今公司已发展成为国家中型企业,先后荣获省文明单位、省高新技术企业、省重合同、守信用企业、省“AAA”级资信信用企业、省清洁文明生产企业、省大中型管理示范企业、省档案管理达标企业、企业荣誉称号、“星河”商标被认定为“江苏著名商标”。

江苏星河集团有限公司引进德国大口径聚乙烯结构壁管道生产线,具有国际领先水平的生产技术,保证了产品的先进性和高品质,生产的埋地用聚乙烯(HDPE)结构壁管道系统,经国家塑料制品质量监督检验中心型式试验,各项性能指标均符合GB/T19472标准要求,产品因采用了特殊的中空“工”字型结构,产品以其系统密封性能好,环刚度高、重量轻、抗冲击、耐腐蚀、耐磨损、综合工程造价低、使用寿命长等特点,广泛应用于市政排水排污、农业灌溉、高速公路、铁路、电力、通讯及工业排污等领域,在国内已被建设部评为推广产品。

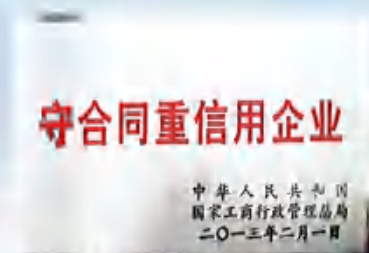


Brief Introduction

Jiangsu Xinghe Group Corporation is located in known as the pearl of the river, water garden city known as the second Yangtze river island city Yang, the unique geographical position, convenient traffic and beautiful environment.

Jiangsu Xinghe Group Corporation was founded in 1982, now covers an area of about 80000 square meters, construction area of 55000 square meters, registered capital of 210 million yuan, existing staff 580 people, senior technical personnel and management staff of more than 150 people. Jiangsu Milky Way group co., LTD. Is China association professional committee of plastic pipe directors unit, the national standardization technical committee plastic products plastic pipes, pipe fittings and valves technical committee member units, China engineering construction standardization association member units, China petrochemical group company supplies equipment resources market member units, China petroleum and natural gas corporation level supply network member unit, the national chemical process piping center designated production enterprise, the company has passed the certification of China fangyuan mark committee, ISO9001 quality system certification, ISO14001 environmental management system certification and GB/T28001 occupational health and safety management system certification. Plastic pipe products in 2005 has been aqsiq awarded national inspection-exempted products, now the company has developed into a national medium-sized enterprises, has won the provincial civilized unit, province high and new technology enterprise, heavy contract, keep promise enterprise, provincial 'AAA' credit enterprise credit standing, province clean production enterprises, large and medium-sized management demonstration enterprises, provincial archives management standard, enterprise honorary title, 'Milky Way' trademark was identified as 'jiangsu famous brand'.

Jiangsu Xinghe Group Corporation the introduction of Germany, large diameter PE pipe production line, the structure wall has the international advanced level of production technology, guarantee the advancement and the high quality products, the production of buried pipe with polyethylene (HDPE) structure wall system, polyethylene winding structure wall pipes and polyethylene double-wall corrugated pipe product, by the national plastic products quality supervision and inspection center type testing, the performance indicators are in line with the GB/T19472 standards, products because of the special hollow 'workers' glyph structure, products with its system sealing performance is good, high stiffness, light weight, impact resistance, corrosion resistance, wear resistance, low comprehensive construction cost, long life and other characteristics, widely used in municipal sewage drainage, irrigation, highway, railway, electricity, communications and industrial sewage, and other fields, has been evaluated by the ministry of construction to promote the product in the country.



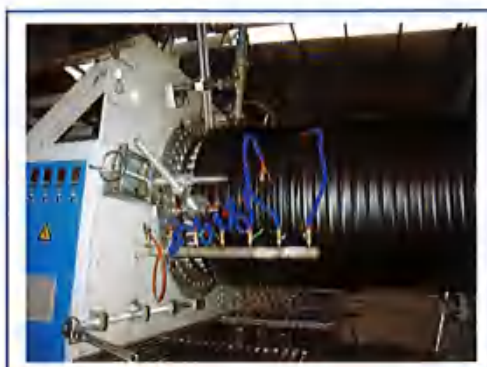
江苏星河集团有限公司
JIANGSU XINGHE GROUP COMPANY

先进的生产设备

Advanced producing equipment

- ◎主机采用双阶式减压螺杆,带有特殊的促进混炼塑化元件,在高扭矩、高温控精度的配合下,保证了产品质量的稳定性。
- ◎采用复式机头,双机联合供料,螺旋转动成型,高效复合工艺,保证了产品的高品质。
- ◎科学的管壁结构设计,融汇国外先进技术精华,充分保证管材在同等环刚度条件下单位用料最少,生产效率最高。
- ◎先进的控制系统,高精度的温控模块;全彩触摸屏,操作方便,稳定可靠。
- ◎自动温控、型管挤出、融胶挤出、缠绕成型、切割同步,自动跟踪控制远程数据输入、程序修改,远程监控和远程故障诊断排除。
- ◎型管挤出机,温控加料调速监控。
- ◎融胶挤出机,温控、调速、温度曲线显示、报警等。

- ◎Main Frame; adopt double-scale pressure-reducing screw with special plasticized elements which can promote mixing, under the control of high precision and high temperature, it can ensure the production with recycled materials completely.
- ◎Compound Head; feeding materials by two machines jointly, forming by spiral rotation, high-efficient compound technology can ensure high quality of product.
- ◎Scientific Structural Design of Pipe Wall; merged with the essence of foreign technology to ensure pipes have less material per unit and high productive efficiency under the same circular rigidity.
- ◎Advanced Control System; high-precision temperature control module plus full color contact screen to make operation to be convenient, stable and reliable.
- ◎Automatic control, extrusion of profile pipe and melting glue, shaping by winding, cut synchronously, automatic tracing to control remote data input, program modifying, remote supervision and trouble diagnosis and remedy.
- ◎Extruder of profile pipe, temperature control materials feeding and speed-governor supervision.
- ◎Extruder of melt glue, temperature control, speed-governor, temperature curves display alarm etc.



完善的检测手段 Perfect Testing Methods

产品依据GB/T19472.2-2004《埋地用聚乙烯(PE)结构壁管道系统第2部分:聚乙烯缠绕结构壁管材》以及欧洲prEN13746的要求,对生产的产品进行检测。

The inspection on the products is carried according to GB/T19472.2-2004 Underground PE Structural Wall Pipe System-Part II:PE twin-walls Spiro Pipe for gravity and low pressure and the requirements of European prEN 13746.

主要检测设备 Main Testing Equipment

- | | |
|------------|---------------------------------|
| ◎环刚度试验机 | Circular Rigidity Tester |
| ◎简支梁冲击试验机 | Impact Tester |
| ◎熔体流动速率测定仪 | Melt flow rate tester |
| ◎氧化诱导时间测试仪 | Oxidation induction time tester |
| ◎系统适应性能测试机 | System adaptability tester |
| ◎蠕变比率测试机 | Creep Ratio Tester |
| ◎烘箱试验 | Oven tester |
| ◎电子万能试验机 | ElectroniC I Iniversal tester |



分析天平



密度测试仪



氧化诱导测试仪



熔指流动速率测试仪



显微镜



热变形温度测定仪



落锤冲击试验机



多功能拉力试验机



环刚度试验机



长期蠕变性能测试



静液压试验机

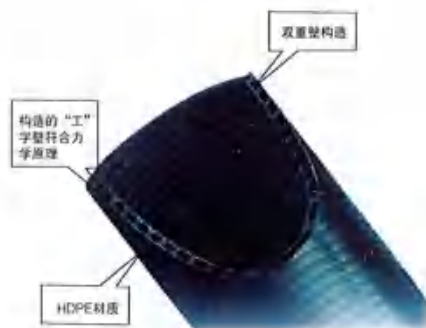
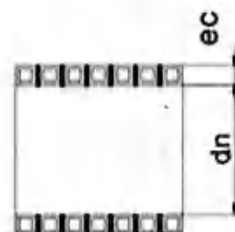
产品介绍

Product introduction

1. 产品按国家标准 GB/T19472.2-2004《埋地用聚乙烯(PE)结构壁管道系统第2部分:聚乙烯缠绕结构壁管材》。
2. 双壁缠绕大口径塑料排水管道是一种高密度聚乙烯(HDPE)为原料,通用特殊的方式缠绕成类似弹簧的结构,并通过相同材质的HDPE方管在高压下熔融挤压而成的管材,管材具有弹簧的可挠曲、可压缩、可拉伸但不可压偏的特点,这一点对于基本无内压、外压比较大的市政排水管材来讲非常重要;因为这种结构为管材提供了非常优势的抗外压能力;方管与方管的两壁形成了一个工字形加强结构,这个结构又被内双层壁所束缚,其位置相对稳定,管材在外压作用时结构稳定,大幅度提高管材耐外负荷能力,螺旋中空的结构管材的耐外压能力提高的同时降低了产品的重量。

1.The inspection on the products is carried according to GB/T19472.2-2004 Underground PE Structural Wall Pipe System-Part II:PE twin-walls .

2.Double wall winding of large diameter plastic drainage pipe is a kind of high density polyethylene (HDPE) as raw materials, common special coiled spring like structure, and by the same material HDPE tube under high pressure melt extruded pipe, pipe has a spring flexible, compressible, can be stretched but not partial pressure characteristics of municipal drainage pipe for the basic inner and outer water pressure is relatively large, very important; because this structure provides a very advantage for the tubing pressure resistance; two square tube and square tube wall forms an I-beam shape reinforcing structure, this structure has been in bondage double wall, its position is relatively stable, stable pressure in pipe structure, improve the external load resistance pipe greatly, and improve the external pressure resistance ability of the structure of the hollow spiral pipe to reduce product weight The amount of.



公称环刚度等级

Nominal Circular Rigidity Class

等级 Class	SN4	(SN6.3)	SN8	(SN12.5)	SN16
环刚度 Circular Rigidity	4	(6.3)	8	(12.5)	16

说明:1. 括号内为非首选等级。

2. 管材 DN/ID $\geq$ 1200mm时,可按工程条件选取环刚度低于SN2等级产品。

Notes: 1.Classes in brackets are not preferential.

3.In case pipe materials DN/ID $\geq$ 1200mm,you can select those with Class of circular rigidity lower than SN2 according to engineering conditions.

管材规格尺寸

Specification and Size of the Pipes

序号 S/N	公称尺寸 Nominal Size(di)	最小平均内径 Minimum Average Inner Diameter	最小壁厚 A 型 $\geq 5\text{mm}$ Model A $\geq 5\text{mm}$	有效长度 Efficient Length L(mm)
1	200	195	1.1	一般为6000， 可按用户要求 Normally it is 6000, but it can be available as required.
2	225	220	1.3	
3	250	245	1.5	
4	300	294	1.7	
5	400	392	2.3	
6	500	490	3.0	
7	600	588	3.5	
8	700	673	4.1	
9	800	785	4.5	
10	900	885	5.0	
11	1000	985	5.0	
12	1100	1085	5.0	
13	1200	1185	5.0	
14	1300	1285	6.0	
15	1400	1385	6.0	
16	1500	1485	6.0	
17	1600	1585	6.0	
18	1700	1685	6.0	
19	1800	1785	6.0	
20	1900	1885	6.0	
21	2000	1985	6.0	
22	2100	2085	6.0	
23	2200	2185	7.0	
24	2300	2285	8.0	
25	2400	2385	9.0	
26	2500	2485	10.0	
27	2600	2585	10.0	
28	2700	2685	12.0	
29	2800	2785	12.0	
30	2900	2885	14.0	
31	3000	2985	14.0	

系统的配套

System of form a complete set of



三通



焊制异径四通



套筒+胶圈



电热熔带



缠绕管胶圈



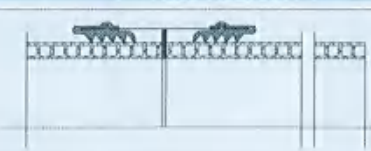
检查井

 性能指标
Specifications

序号 S/N	项目 Item	技术要求 Technical Requirement	试验标准 Test Standard																			
1	外观 Appearance	管材、管件的内外表面应平整,外部肋应规整,管材、管件内外壁无气泡和可见杂质,焊缝无脱开,管材、管件在切割后的端面应修整,无毛刺。 Inner surfaces of pipes and fittings should be evenness, ribs on outside should be regular, inner and outer walls of pipes and fittings should have no bubbles and visible impurities ,no crack of welding seams,end surface of pipes should be finished without burr after cutting .	产品标准 Standard of products																			
2	环刚度 Circular rigidity	大于等于公称环刚度数值(例:SN8环刚度 $\geq 8.0\text{KN/m}^2$) Larger than or equal to nominal value of circular rigidity(ex.:circular rigidity SN8 $\geq 8.0\text{KN/m}^2$).	GB/T9647																			
3	冲击性能 Shock Property	0℃,锤头质量 1.6~3.2Kg,冲击高度 2m,TIR $\leq 10\%$ 0℃,mass of hammer head 1.6~3.2kg,shock height 2m,TIR $\leq 10\%$	GB/T14152																			
4	环柔性 Circular Flexibility	管材应无分层,无分裂,管材壁结构的任何方向不发生永久性的屈曲变形,包括凹陷和突起。 Pipe materials should have no laminations and crack,any directions of wall structure of pipes no permanent bending and deformation including cave and protruding.	GB/T9647																			
5	纵向回缩率 Longitudinal Shrinkage	$\leq 3\%$,管材应无分层、无开裂 $\leq 3\%$,pipe materials should have no laminations and crack	GB/T6671																			
6	烘箱试验 Oven Test	管材焊缝处应无分层、无开裂 Pipe materials should have no laminations and crack at welding seams	产品标准 Standard of products																			
7	蠕变率 Creepage Rate	外推 2 年的蠕变率 ≤ 4 Creepage Rate ≤ 4 for 2 tears extension	GB/T18042																			
8	缝的拉伸强度 Tensile Strength of Seam	管材能承受的最小拉伸力(N) Minimum Tensile Force Pipe Materials Can Endure(N) DN/ID ≤ 300 380 400 $\leq$ DN/ID ≤ 500 510 600 $\leq$ DN/ID ≤ 700 760 DN/ID ≥ 800 1020	GB/T8804.3																			
9	系统密封性能 Air-Tightness of System	<table><thead><tr><th>条件 Conditions</th><th>试验参数 Test Data</th><th>要求 Requirement</th></tr></thead><tbody><tr><td rowspan="4">条件B:径向变形 管材变形 10% 承口变形 5% 温度:23℃$\pm$ 2℃ Condition B:radial deformation Pipe material deformation Insert mouth deformation Temperature: 23℃$\pm$2℃</td><td>较低的内部静液压(15min)0.005MPa Lower inner static hydraulic pressure(15min) 0.005MPa</td><td>无泄漏 No leakage</td></tr><tr><td>较高的内部静液压(15min)0.05MPa Higher inner static hydraulic pressure(15min) 0.05Mpa</td><td>无泄漏 No leakage</td></tr><tr><td>内部气压(15min) -0.03MPa Inner air pressure(15min) -0.03MPa</td><td>$\leq -0.027\text{MPa}$</td></tr><tr><td>条件C:角度偏转 DN/ID≤ 300; 2° 平均$\leq$DN/ID≤ 600; 1.5° DN/ID≥ 600; 1° 温度: 23℃$\pm$2℃ Condition C: angle deformation DN/ID≤ 300; 2° average$\leq$DN/ID≤ 600; 1.5° DN/ID≥ 600; 1° Temperature: 23℃$\pm$2℃</td><td>较低的内部静液压(15min)0.005MPa Lower inner static hydraulic pressure(15min) 0.005MPa</td><td>无泄漏 No leakage</td></tr><tr><td></td><td>较高的内部静液压(15min)0.05MPa Higher inner static hydraulic pressure(15min) 0.05Mpa</td><td>无泄漏 No leakage</td></tr><tr><td></td><td>内部气压(15min) -0.03MPa Inner air pressure(15min) -0.03MPa</td><td>$\leq -0.027\text{MPa}$</td></tr></tbody></table>	条件 Conditions	试验参数 Test Data	要求 Requirement	条件B:径向变形 管材变形 10% 承口变形 5% 温度:23℃ $\pm$ 2℃ Condition B:radial deformation Pipe material deformation Insert mouth deformation Temperature: 23℃ $\pm$ 2℃	较低的内部静液压(15min)0.005MPa Lower inner static hydraulic pressure(15min) 0.005MPa	无泄漏 No leakage	较高的内部静液压(15min)0.05MPa Higher inner static hydraulic pressure(15min) 0.05Mpa	无泄漏 No leakage	内部气压(15min) -0.03MPa Inner air pressure(15min) -0.03MPa	$\leq -0.027\text{MPa}$	条件C:角度偏转 DN/ID ≤ 300 ; 2° 平均 $\leq$ DN/ID ≤ 600 ; 1.5° DN/ID ≥ 600 ; 1° 温度: 23℃ $\pm$ 2℃ Condition C: angle deformation DN/ID ≤ 300 ; 2° average $\leq$ DN/ID ≤ 600 ; 1.5° DN/ID ≥ 600 ; 1° Temperature: 23℃ $\pm$ 2℃	较低的内部静液压(15min)0.005MPa Lower inner static hydraulic pressure(15min) 0.005MPa	无泄漏 No leakage		较高的内部静液压(15min)0.05MPa Higher inner static hydraulic pressure(15min) 0.05Mpa	无泄漏 No leakage		内部气压(15min) -0.03MPa Inner air pressure(15min) -0.03MPa	$\leq -0.027\text{MPa}$	EN1277
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10	焊接或熔接连接的 拉伸强度 Tensile Strength of Welding and Weld Joint	同缝的拉伸强度 Same as tensile strength of seams 要求连接不被破坏 it is needed the joint couldn't be destructed	产品标准 Standard of products																			

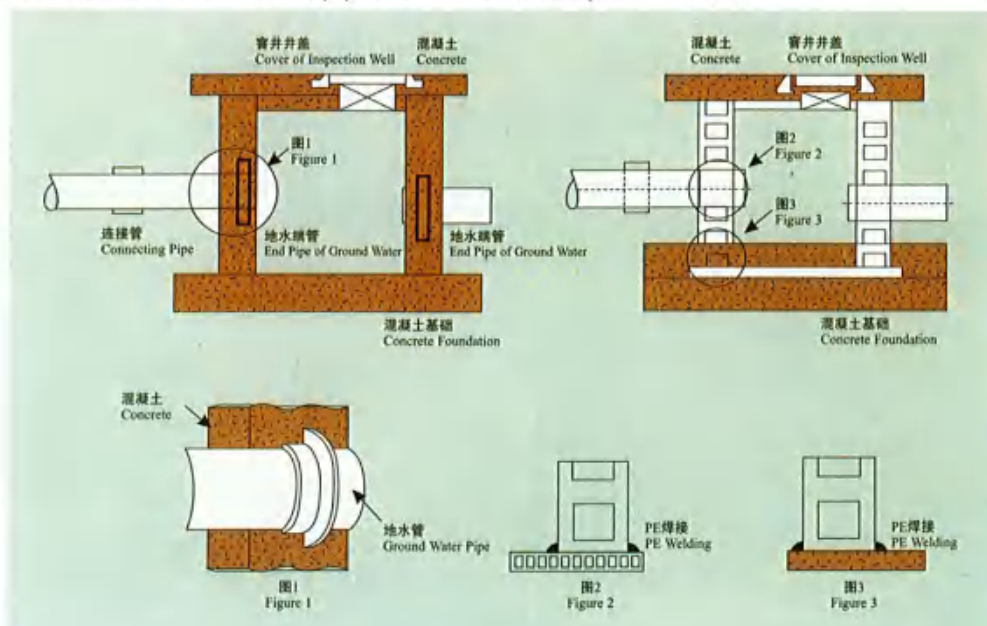
管道连接方式

Connection Styles of Pipelines

连接方式 Connection Style	所需器材 Required Devices and Materials	连接方式示意图 Schematic Drawing of Connection Style	
双向承插弹性密封连接	唇形弹性密封件、管件、普通橡胶圈 Lip-Shape Elastic Air-Tight Seals, Pipe and Common Rubber Ring		
插口密封连接			
电热熔带连接 Electric Melting Stripe Connection	电熔焊机、布条 Electric Melting Welder, Cloth Stripe		
热收缩连接 Thermal Shrinkage Connection	热收缩套管 Thermal Shrinkage Sleeve		
哈夫连接 Houghton Connection	不锈钢卡箍 Stainless Steel Hoop		

排水管与混凝土窖的连接

Connection between water drain pipe and concrete inspection well



产品特点

Features of Products and Fields of Application

耐腐蚀性好

Good corrosion resistance

不易被污水、废水及化学药品腐蚀，
不易被土壤中腐烂、物质腐蚀

Not easy to be sewage, waste water and chemical corrosion,
is not easy to rot in the soil, material corrosion

抗冲击性

Impact resistance

产品设计采用“工字形”构造，强度高、抗压、耐冲击性好

Product design using "i-section",
High strength, compressive strength, good resistance to impact.
Adopt the double wall structure products. The outer wall

采用双重壁的产品构造；外壁受破损也不会影响正常通水。
damage will not affect normal drainage systems.

轻便、柔韧性、通水能力强

Lightweight and flexible, strong ability to pass water

质轻便于搬运，施工方便，埋管只需挖土地机，不需大型设备；

Light easy to handle, construction is convenient, buried pipe machine just dig land,
do not need large equipment

在低温下，也能保持良好的柔韧性，抗沉降性能好，对基础技术处理要求低；

At low temperature, also can maintain good flexibility, good sedimentation, low technical foundation processing requirements

耐寒、抗晒、耐磨损性

Cold-resistant, shining-resisting and wear resisting

暴晒于太阳下，也基本不会对其物理性能产生影响；

No affection on physical properties even exposure under the sun

零60℃的气温条件下不会出现冻裂；

No crack under -60℃ temperature;

耐磨损性强，生活污水渣通运能力强。

Strong wear-resisting, strong passage ability of waste water and filth.

多样灵活的连接方式

Diversity of flexible connections

电热熔节连接、热收缩带连接、实属扩口承(插式连接)

不锈钢卡箍连接等，接头无渗漏、密封性好

Electric hot melt connection, heat shrinkable belt connected, is a flaring bell
(plug-in connection)

Stainless steel clamp connection, such as joint without leakage, good sealing

产品主要应用领域

Product main application fields

市政 Civil Works

排水、排污管

Drainage, drainage pipe

工业 Industry

排水、排污管、低压输水管

Drainage, drainage pipe, low pressure water pipe

农业 Agriculture

低压灌溉、输排水管

Low pressure irrigation, drainage pipe

电力 Power Supply

低、高压供电电缆保护管

Low and high voltage power supply cable protection tube

广电 Broadcast & TV

有线电视电缆保护管

Cable protection tube

邮电 Post & Telecommunication

通信电缆、光缆保护管

Communication cable, cable protection tube

铁路 Railway

控制和信号线导管

Control and signal wire catheter

高速公路 Expressway

通信、供电和信号系统网络管

Communication, power supply and signal system pipe network

公路 Highway

排水管、交通信号导管

Catheter drains, traffic signal

城建 Urban construction

街道照明和交能信号系统导管

Street lighting and catheter signal system

环保 Environment Protection

低压排水、排污管

Low pressure drainage, drainage pipe

化学物质 Chemical Substan	浓度 Concentration	温度 Tem.			浓度 Concentration	温度 Tem.	
		20℃	60℃			20℃	60℃
硫 Sulfur	≤60% 60%-90% ≥98%	R R R	R C	丙酸 Acylic Acid	50% 100%	R R	R R
硝酸 Nitric Acid	≤30% 30%-50%	R R	R C	氢氧化钾 Potassium Hydroxide		R	R
盐酸 Hydrochloric Acid	≤36%	R	R C	氯酸钾 Potassium Chlorate		R	R
磷酸 Phosphoric Acid	≤30% 95%	R R	R	氢氧化钠 Sodium Hydroxide		R	R
砷酸 Arsenic Acid	75%	R	R	氢氧化钡 Barium Hydroxide	40%	R	R
丁酸 Butyric Acid	浓缩 Concentrated	R	R	氢氧化钙 Calcium Hydroxide	浓缩 Concentrated	R	R
甲酸 Formic Acid	100%	R	R	酒精 Ethyl Alcohol Einyl		R	R
醋酸 Aceti Acid		R	R	汽油 Gasoline		R	C
无水醋 Waterless Acetic Acid		R	R	松节油 Turpentine Oil		C	
硅酸 Silicon Acid		R	C	柴油 Diesel Oil		R	R
氢氟 Hydrofluoric	≤60%	R	R	肥料 Fertilizer	含水 Aqueous	R	R
过氧化氢 Hydrongen Peroxide	<30% 90%	R R	R C	海水污水 Sea water Waster water		R	R
乳酸 Lactic Acid	100%	R	R				

工程业绩

Main Achievements

序号 Item N.	用户名称 Client name
1	南京市雨污分流指挥部 Nanjing Yuwu Affluent Headquarter
2	上海金山市政工程有限公司 Shanghai City Government Engineering Co., Ltd.
3	镇江市给排水管理处 Zhenjiang Administration Bureau of Water Supply and Drainage
4	宜兴市水务集团公司 Yixing Water Group Company
5	南京通达市政工程建设有限公司 Nanjing Tongda Civil Works Engineering & Construction Co., Ltd.
6	南京第二道路排水工程公司 Nanjing Second Street Drainage Engineering Company
7	南京金固建设(集团)有限公司 Nanjing Jinggu Construction (Group) Co., Ltd.
8	南京六合化工园区 Nanjing Liuhe Chemical Industry District
9	连云港市政工程有限公司 Lianyungang Civil Works Engineering Co., Ltd.
10	南京红太阳装饰城 Nanjing Red Sun Adomant City
11	南京九华山隧道工程 Nanjing Jiuhua Mountain Tunnel Project
12	南京高铁南站项目工程 Nanjing South High-way Station project
13	南京久大建设投资集团 Nanjing Jiuda Construction & Investment Group
14	南京嘉盛建设集团 Nanjing Jiasheng Construction Group
15	南京康鼎路桥建设集团 Nanjing Kangding Luqiao Construction Group
16	南京瓜埠建筑安装工程有限公司 Nanjing Guabu Construction & Installation Engineering Co., Ltd.
17	上海宝山区市政排水工程 Shanghai Baoshan District Civil Works Drainage Project
18	昆山市市政污水管网工程 Kunshan Civil Works Sewage Pipe Project
19	上海中远两湾城 Shanghai Zhongyuan Two Bay City
20	上海赛科石油化工有限责任公司 Shanghai Saik Petrochemical Co., Ltd.
21	长治市城市供水有限公司 Changzhi City Water Supply Co., Ltd.
22	天津城建集团公司空港物流加工区 Tianjin Urban Construction Group Konggang Logistic Process District
23	青海盐湖集团水采船供水系统工程 Qinghai Yanshu Group Water Supply System Project for Water Mining Ship
24	江苏扬中市城区污水截流改造工程 Jiangsu Yangzhong Urban Sewage Interception and Transformation Project
25	金坛市交通管理处 Jintan Transportation Administration Bureau
26	安徽蚌埠铁路局供水管网改造 Transformation of the Water Supply Pipes by Anhui Benbu Railway Bureau
27	株洲城市公用事业管理局市政给排水工程 Zhuzhou Urban Public Services Administration Bureau Civil works Water Supply and Drainage project
28	南通润扬大桥排水管网工程 Nantong Runyang Bridge Drainage Pipe project
29	常州市夹山生活垃圾填埋场 Changzhou Jia Shan Living Garbage Dumping Field
30	平湖市市政工程公司 Pinghu Civil Works Engineering Corporation
31	上海宝山区罗中路给排水管网工程 Water Supply and Drainage pipe Project of Shanghai Baoshan District Luozhong Road
32	南宁市环境卫生管理处 Nanning Environment and Health Administration Bureau





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