

AlienSpir

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青岛青橡橡胶有限公司

QINGDAO QINGFLEX HOSE FACTORY

ULTRA HIGH PRESSURE THERMOPLASTIC HOSE

超高压树脂软管产品手册

2026

公司简介

青岛青橡橡胶有限公司成立于2008年，注册资本1.68亿元，坐落在青岛西海岸新区（黄岛区），占地95000平方米，拥有500多名员工。

青橡橡胶是国家级高新技术企业，于2024年在马耳他建立了欧洲技术中心，专业生产超高压树脂软管、整体式和扣压式高压石油软管、酸化压裂软管、低压输送软管和液压软管，拥有多项专利及全套检测设备。

我司生产的AlienSpir超高压树脂软管，采用国外最先进的设备，产品应用范围广泛，工作压力最高可达55,000 PSI，为行业提供超高压解决方案。

我们的荣誉资质如下：

截止2024年，我司累计获得发明专利5项，实用新型专利40余项：

2024年，公司获得“一种酸化压裂软管及制备方法”发明专利证书

2020年，公司荣获青岛市液压胶管及总成制造技术创新中心荣誉称号

2020年，公司荣获青岛市工业设计中心荣誉称号

2020年，公司荣获青岛市数字化车间荣誉称号

2019年，公司荣获青岛市专精特新示范企业的荣誉称号

2018年，公司获得“一种耐化学腐蚀的橡胶软管”专利证书

2017年，公司被评为“山东省著名商标”

2017年，公司成功在蓝海股权交易中心挂牌

2017年，公司被认定为青岛市企业技术中心

2016年，公司获得“高新技术企业认定”

2015年，公司获得“专精特新”产品认定

2014年，公司获得“安全标准化认定”

2008年，公司在青岛注册成立

Enterprise Introduction

Qingdao Qingflex Hose Factory was established in 2008, registered capital 168 million RMB, is located in Qingdao West Coast New Area (Huangdao District), covers an area of 95,000 square meters and has more than 500 workers.

Qingflex is a national high-tech enterprise, sets up its European Technical Center in Malta in 2024 and production of ultra high pressure thermoplastic hose, built-in and crimped high-pressure oilfield hoses, acid fracturing hoses, low-pressure delivery hoses and hydraulic hoses. Qingflex has multiple patents and a full set of testing equipment.

Qingflex AlienSpir ultra high pressure thermoplastic hoses are manufactured using the most advanced equipment from abroad, and have a wide range of applications. The maximum working pressure can reach 55,000 PSI, providing ultra high pressure solutions for the industry.

Our Honors and Qualifications as Follows:

Until 2024, we have got 5 items patents of invention and more than 40 items patents for utility models.

In 2024, our company obtained the invention patent certificate for "Acidified Fracturing Hose and Preparation Method"

In 2020, our company won the honorary title of Qingdao Hydraulic Hose and Assembly Manufacturing Technology Innovation Center

In 2020, our company won the honorary title of Qingdao Industrial Design Center

In 2020, our company won the honorary title of Qingdao Digital Workshop

In 2019, our company won the honorary title of Qingdao Specialized, Excellent and New Demonstration Enterprise

In 2018, our company obtained the patent certificate for "a chemical-resistant rubber hose"

In 2017, our company was rated as "Shandong Famous Brand"

In 2017, our company successfully listed on the Blue Ocean Equity Trading Center

In 2017, our company was recognized as Qingdao Enterprise Technology Center

In 2016, our company obtained the "High-tech Enterprise Certification"

In 2015, our company obtained the "Special, Excellent and New " product certification

In 2014, our company obtained the "Safety Standardization Certification"

In 2008, our company was registered and established in Qingdao

企业文化 COMPANY CULTURE

公司愿景：做高品质胶管世界级生产商

Our goal: To be world-class manufacturer of high quality rubber hoses

公司使命：让液压因青橡更安心

Our mission: QINGFLEX make hydraulic more secure

核心价值观：

Our core values:

人品、企品、产品三品合一

以客户为中心，以奋斗者为本

按部就班，持之以恒

诚实守信，言出必行

谦虚谨慎，如履薄冰

Combining of reputation of Character, Company and Product

Taking customers as the center, taking strivers as the base

Working step by step, persevering day by day

To be honest and promised, suiting the action to the word

To be modest and cautious, treading as on thin ice

质量体系与认证 QUALITY SYSTEM AND CERTIFICATION



体系证书 SYSTEM CERTIFICATION

GB/T 19001-2016 / ISO 9001: 2015
质量管理体系认证

GB/T 24001-2016 / ISO 14001: 2015
环境管理体系认证

GB/T 45001-2020 / ISO 45001: 2018
职业健康安全管理体系认证

产品证书 PRODUCT CERTIFICATION

API Q1, API 7K, API 16C 美国石油协会认证

MSHA 美国矿业安全和健康管理认证

MA 煤安认证

ROHS 欧盟化学安全认证

REACH 欧盟化学安全认证

PROP 65 美国加州65

GOST 俄罗斯GOST

EN45545 欧盟轨道交通车辆材料防火测试标准

DIN5510 机车材料毒烟测试标准

TB/T 3261-2011 机动车管路测试标准

TB/T 3474.2-2018 机车车辆软管测试标准

Applying

ABS 美国船级社认证

DNV MED 挪威船级社认证

CCS 中国船级社认证



研发中心 R&D Center



超高压软管数据列表 Key List To Ultra High Pressure

应用领域 APPLICATIONS



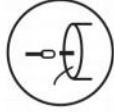
石油天然气和海上作业
Oil & Gas and Off-shore



水力喷射
Water blasting



螺栓张紧
Bolt-tensioning



热交换器
Heat exchanger



压力试验设备
Pressure test equipment

系列编号 CODE SYSTEM

系列编号 SERIES CODE

- CORE Basic Series常规系列
- HTW Hot Water热水
- HT High Temperature高温
- M Methanol甲醛
- PPA Chemical Injection化学注入
- H2 Hydrogen氢气
- UHP Ultra-High pressure超高压
- UHPX Reinforced Ultra-High pressure增强型超高压

结构编号 STRUCTURE CODE

- W Wire钢丝
- HW High Performance Wire高性能钢丝
- BD Braiding编织
- S Super Soft超柔
- F Flat Steel Wire扁钢丝
- P PTFE or FEP inner core PTFE 或FEP内管
- OB Outer cover braided layer 外层编织
- R Reinforced Out Cover增强型外层
- DC Double Out Cover双层外层



颜色压力编码 COLOR PRESSURE CODE



10000PSI---690BAR



15000PSI---1034BAR



20000PSI---1379BAR



30000PSI---2068BAR



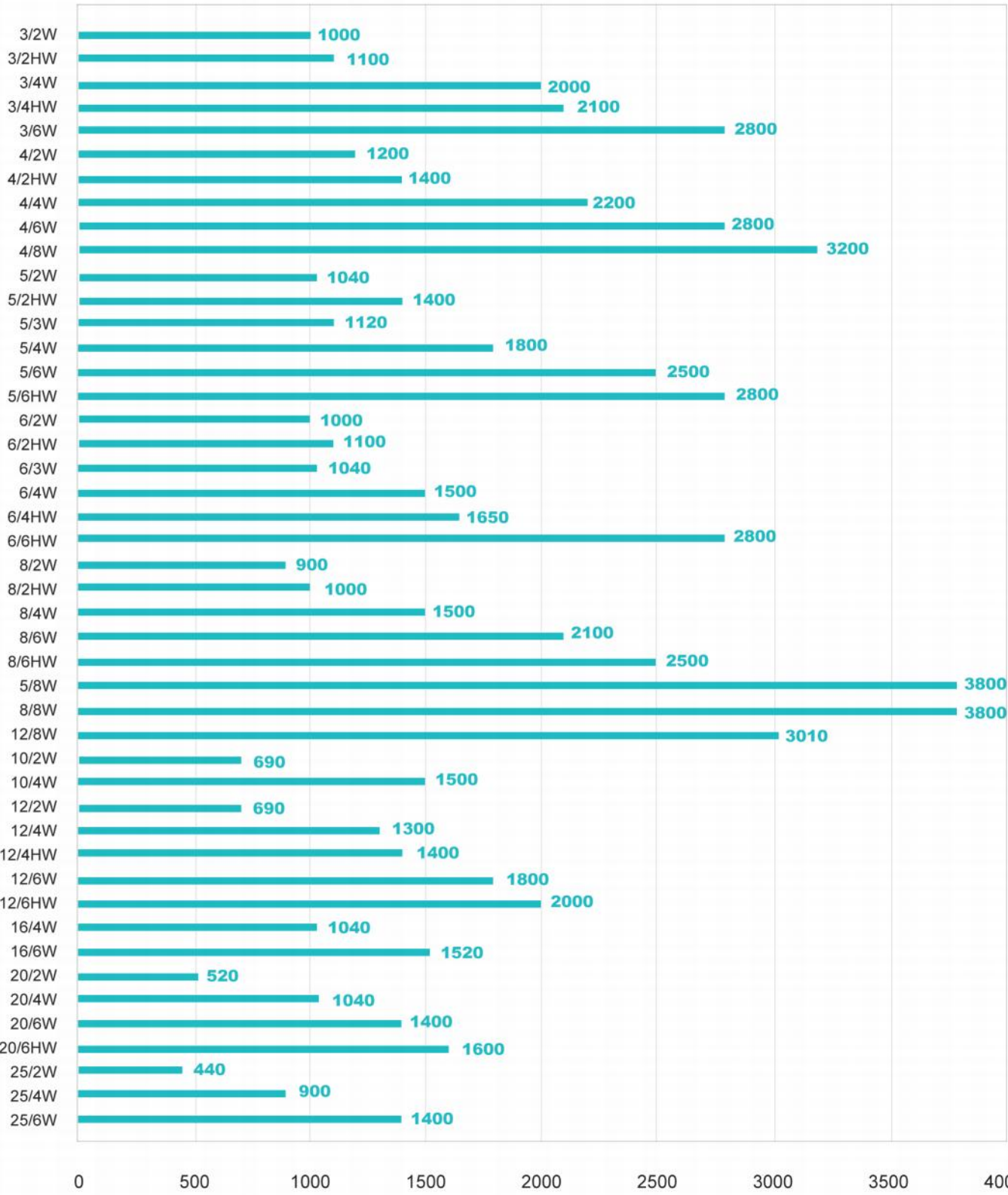
40000PSI---2758BAR



55000PSI---3792BAR

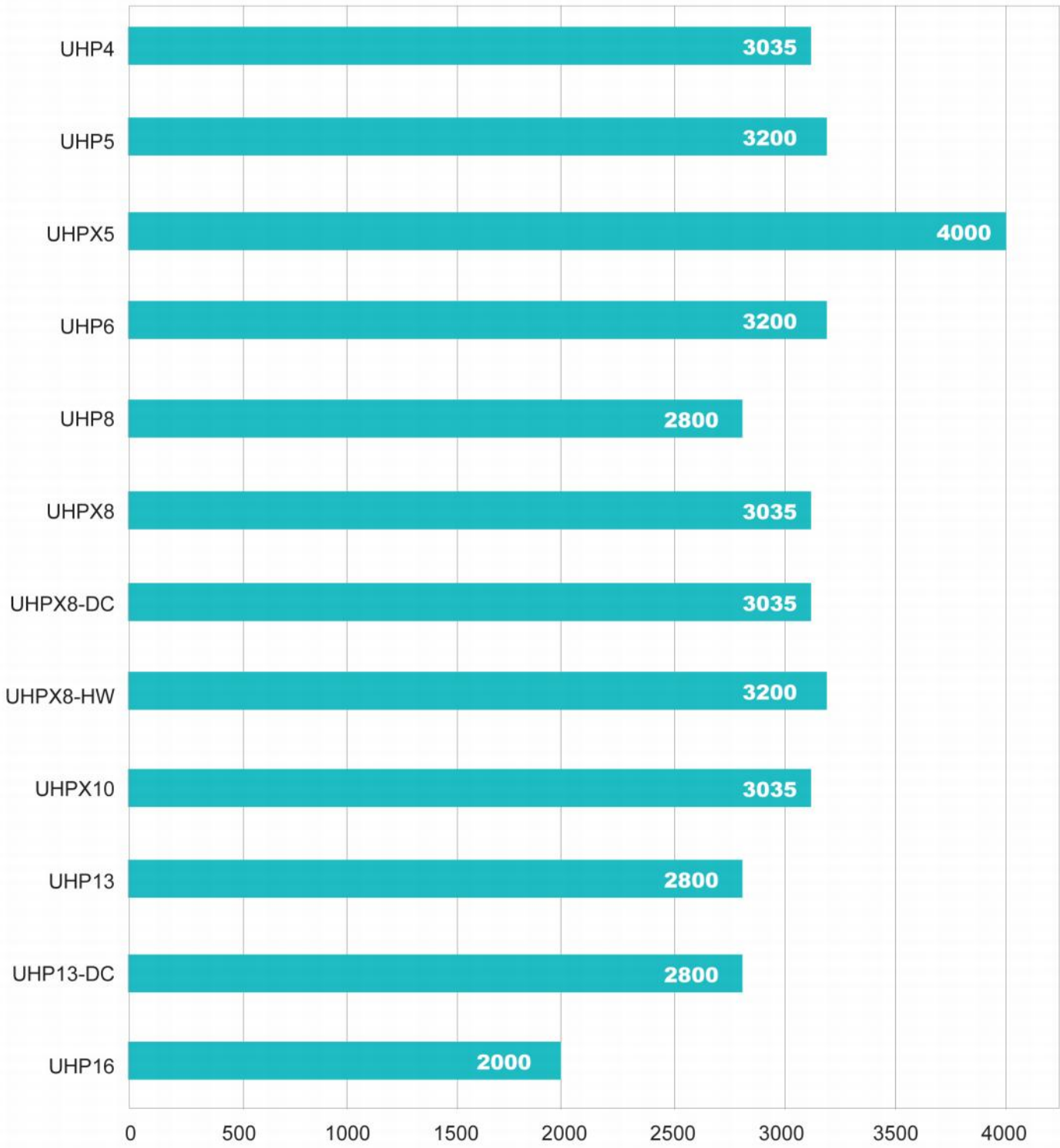
按压力等级选择软管 Hose Selection by pressure rating

W.P BAR
(Core Series)



按压力等级选择软管 Hose Selection by pressure rating

W.P BAR
(UHP Series)



AlienSpir

超高压树脂软管系列

Core -2W

AlienSpir Core Series

Thermoplastic Hose for Ultra High Pressure
From 440 to 1200 bar (6380 to 17400psi)



应用 Applications

工业应用: 水射流切割, 管道清洁、表面处理与油漆去除, 水力拆除, 船舶、储罐和容器清洁, 水喷砂供应软管, 一般工业清洁, 去除表面堆积的污垢
液压: 液压千斤顶, 螺栓拉伸, 超高压测试应用, 一般超高压液压应用

Industrial applications: Waterjet cutting, Tube cleaning, surface preparation and paint removal, Hydro demolition, Ships, tanks and vessel cleaning, Waterblast supply hose, General industrial cleaning, Removal of accumulated dirt from surfaces
Hydraulics: Hydraulic jacks, Bolt tensioning, Testing UHP applications, General UHP hydraulic applications

结构 Construction

内芯: 聚甲醛 (POM)
增强层: 多层高强度钢丝
外覆层: 聚酰胺 (PA)

Inner Core: Polyoxymethylene (POM)
Reinforcement: Multi layers of high-tensile steel wire
Outer Cover: Polyamide (PA)

颜色编码 Color Code

- 15000PSI---1034BAR
- 10000PSI---690BAR

温度Temperature

-30°C to +60°C [-22°F to 140°F]

Part No.	Hose Size			ID		OD		WP		BP		Bending radius		Weight	
	DASH	INCH	DN	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	kg/m	lbs/ft
3/2W	2	1/8	3	3.4	0.13	6.9	0.27	1000	14500	2500	36250	60	2.36	0.07	0.048
4/2W	2.5	5/32	4	4	0.16	8	0.31	1200	17400	3000	43500	75	2.95	0.11	0.074
5/2W	3	3/16	5	5	0.2	9.4	0.37	1040	15080	2600	37700	95	3.74	0.13	0.084
6/2W	4	1/4	6	6.3	0.25	11.5	0.45	1000	14500	2500	36250	110	4.33	0.18	0.117
8/2W	5	5/16	8	8.1	0.32	13.3	0.52	900	13050	2250	32625	130	5.12	0.2	0.134
10/2W	6	3/8	10	10.1	0.4	15.5	0.61	690	10005	1725	25013	160	6.3	0.28	0.188
13/2W	8	1/2	12	12.9	0.51	19.3	0.76	690	10005	1725	25013	200	7.87	0.44	0.291
19/2W	12	3/4	20	19	0.75	26.2	1.03	520	7540	1300	18850	240	9.45	0.75	1.13
25/2W	16	1	25	24.8	0.98	33.5	1.32	440	6380	1100	15950	300	11.81	0.95	0.636

Core -2HW

AlienSpir Core Series

Thermoplastic Hose for Ultra High Pressure

From 1000 to 1400 bar (14500 to 20300psi)



应用 Applications

工业应用: 水射流切割, 管道清洁、表面处理与油漆去除, 水力拆除, 船舶、储罐和容器清洁, 水喷砂供应软管, 一般工业清洁, 去除表面堆积的污垢

液压: 液压千斤顶, 螺栓拉伸, 超高压测试应用, 一般超高压液压应用

Industrial applications: Waterjet cutting, Tube cleaning, surface preparation and paint removal, Hydro demolition, Ships, tanks and vessel cleaning, Waterblast supply hose, General industrial cleaning, Removal of accumulated dirt from surfaces

Hydraulics: Hydraulic jacks, Bolt tensioning, Testing UHP applications, General UHP hydraulic applications

结构 Construction

内芯: 聚甲醛 (POM)
增强层: 多层高强度钢丝
外覆层: 聚酰胺 (PA)

Inner Core: Polyoxymethylene (POM)
Reinforcement: Multi layers of high-tensile steel wire
Outer Cover: Polyamide (PA)

颜色编码 Color Code

15000PSI---1034BAR
20000PSI---1379BAR

温度Temperature

-30°C to +70°C [-22°F to 158°F]

Part No.	Hose Size			ID		OD		WP		BP		Bending radius		Weight	
	DASH	INCH	DN	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	kg/m	lbs/ft
3/2HW	2	1/8	3	3.4	0.13	7	0.28	1100	15950	2750	39875	60	2.36	0.07	0.048
4/2HW	2.5	5/32	4	4	0.16	8.1	0.32	1400	20300	3500	50750	75	2.95	0.11	0.075
5/2HW	3	3/16	5	4.9	0.19	9.50	0.37	1400	20300	3500	50750	95	3.74	0.15	0.099
6/2HW	4	1/4	6	6.3	0.25	11.6	0.46	1100	15950	2750	39875	110	4.33	0.18	0.117
8/2HW	5	5/16	8	8.1	0.32	13.3	0.52	1000	14500	2500	36250	110	4.33	0.2	0.134

Core -4W

AlienSpir Core Series

Thermoplastic Hose for Ultra High Pressure

From 900 to 2200 bar (13050 to 31900psi)



应用 Applications

工业应用: 水射流切割, 管道清洁、表面处理与油漆去除, 水力拆除, 船舶、储罐和容器清洁, 水喷砂供应软管, 一般工业清洁, 去除表面堆积的污垢

液压: 液压千斤顶, 螺栓拉伸, 超高压测试应用, 一般超高压液压应用

Industrial applications: Waterjet cutting, Tube cleaning, surface preparation and paint removal, Hydro demolition, Ships, tanks and vessel cleaning, Waterblast supply hose, General industrial cleaning, Removal of accumulated dirt from surfaces

Hydraulics: Hydraulic jacks, Bolt tensioning, Testing UHP applications, General UHP hydraulic applications

结构 Construction

内芯: 聚甲醛 (POM)
增强层: 多层高强度钢丝
外覆层: 聚酰胺 (PA)

Inner Core: Polyoxymethylene (POM)
Reinforcement: Multi layers of high-tensile steel wire
Outer Cover: Polyamide (PA)

颜色编码 Color Code

10000PSI---1034BAR
15000PSI---1034BAR
20000PSI---1379BAR

温度Temperature

-30°C to +60°C [-22°F to 140°F]

Part No.	Hose Size			ID		OD		WP		BP		Bending radius		Weight	
	DASH	INCH	DN	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	kg/m	lbs/ft
3/4W	2	1/8	3	3.4	0.13	8	0.31	2000	29000	5000	72500	110	4.33	0.14	0.09
4/4W	2.5	5/32	4	4	0.16	10.3	0.41	2200	31900	5500	79750	90	3.54	0.23	0.157
5/4W	3	3/16	5	5	0.2	11.2	0.44	1800	26100	4500	65250	150	5.91	0.26	0.174
6/4W	4	1/4	6	6.3	0.25	12.6	0.5	1500	21750	3750	54375	180	7.09	0.3	0.198
8/4W	5	5/16	8	8	0.31	14.6	0.57	1500	21750	3750	54375	200	7.87	0.39	0.261
10/4W	6	3/8	10	9.9	0.39	18.4	0.72	1500	21750	3750	54375	200	7.87	0.69	0.464
13/4W	8	1/2	12	12.8	0.5	21.4	0.84	1300	18850	3250	47125	200	7.87	0.8	0.536
16/4W	10	5/8	16	16	0.63	25.5	1	1040	15080	2600	37700	250	9.84	1	0.671
19/4W	12	3/4	20	18.8	0.74	28.8	1.13	1040	15080	2600	37700	250	9.84	1.13	1.35
25/4W	16	1	25	24.8	0.98	36.3	1.43	900	13050	2250	32625	300	11.81	1.72	1.149

Core -4HW

AlienSpir Core Series

Thermoplastic Hose for Ultra High Pressure

From 1400 to 2100 bar (20300 to 30450psi)



应用 Applications

工业应用: 水射流切割, 管道清洁、表面处理与油漆去除, 水力拆除, 船舶、储罐和容器清洁, 水喷砂供应软管, 一般工业清洁, 去除表面堆积的污垢

液压: 液压千斤顶, 螺栓拉伸, 超高压测试应用, 一般超高压液压应用

Industrial applications: Waterjet cutting, Tube cleaning, surface preparation and paint removal, Hydro demolition, Ships, tanks and vessel cleaning, Waterblast supply hose, General industrial cleaning, Removal of accumulated dirt from surfaces

Hydraulics: Hydraulic jacks, Bolt tensioning, Testing UHP applications, General UHP hydraulic applications

结构 Construction

内芯: 聚甲醛 (POM)
增强层: 多层高强度钢丝
外覆层: 聚酰胺 (PA)

Inner Core: Polyoxymethylene (POM)
Reinforcement: Multi layers of high-tensile steel wire
Outer Cover: Polyamide (PA)

颜色编码 Color Code

- 15000PSI---1034BAR
- 20000PSI---1379BAR

温度Temperature

-30°C to +70°C [-22°F to 158°F]

Part No.	Hose Size			ID		OD		WP		BP		Bending radius		Weight	
	DASH	INCH	DN	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	kg/m	lbs/ft
3/4HW	2	1/8	3	3.4	0.13	8.1	0.32	2100	30450	5250	76125	110	4.33	0.14	0.09
6/4HW	4	1/4	6	6.3	0.25	12.6	0.5	1650	23925	4125	59813	180	7.09	0.3	0.198
13/4HW	8	1/2	12	12.8	0.5	22	0.87	1400	20300	3500	50750	200	7.87	0.88	0.59

Core -6W

AlienSpir Core Series

Thermoplastic Hose for Ultra High Pressure

From 1400 to 2800 bar (20300 to 40600psi)



应用 Applications

工业应用: 水射流切割, 管道清洁、表面处理与油漆去除, 水力拆除, 船舶、储罐和容器清洁, 水喷砂供应软管, 一般工业清洁, 去除表面堆积的污垢

液压: 液压千斤顶, 螺栓拉伸, 超高压测试应用, 一般超高压液压应用

Industrial applications: Waterjet cutting, Tube cleaning, surface preparation and paint removal, Hydro demolition, Ships, tanks and vessel cleaning, Waterblast supply hose, General industrial cleaning, Removal of accumulated dirt from surfaces

Hydraulics: Hydraulic jacks, Bolt tensioning, Testing UHP applications, General UHP hydraulic applications

结构 Construction

内芯: 聚甲醛 (POM)
增强层: 多层高强度钢丝
外覆层: 聚酰胺 (PA)

Inner Core: Polyoxymethylene (POM)
Reinforcement: Multi layers of high-tensile steel wire
Outer Cover: Polyamide (PA)

颜色编码 Color Code

- 20000PSI---1379BAR
- 30000PSI---2068BAR
- 40000PSI---2758BAR

温度Temperature

-30°C to +60°C [-22°F to 140°F]

Part No.	Hose Size			ID		OD		WP		BP		Bending radius		Weight	
	DASH	INCH	DN	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	kg/m	lbs/ft
3/6W	2	1/8	3	3	0.12	9.1	0.36	2800	40600	7000	101500	150	5.91	0.22	0.149
4/6W	2.5	5/32	4	4	0.16	11.5	0.45	2800	40600	7000	101500	175	6.89	0.37	0.245
5/6W	3	3/16	5	4.8	0.19	13.2	0.52	2500	36250	6250	90625	200	7.87	0.45	0.302
8/6W	5	5/16	8	8	0.31	16.4	0.65	2100	30450	5250	76125	250	9.84	0.64	0.429
13/6W	8	1/2	12	12.8	0.5	23.4	0.92	1800	26100	4500	65250	300	11.81	1.16	0.777
16/6W	10	5/8	16	15.9	0.63	27.7	1.09	1520	22040	3800	55100	320	12.6	1.52	1.022
19/6W	12	3/4	20	18.8	0.74	32.8	1.29	1400	20300	3500	50750	350	13.78	2.17	1.77
25/6W	16	1	25	24.8	0.98	39.8	1.57	1400	20300	3500	50750	600	22.62	2.8	1.876

Core -6HW

AlienSpir Core Series

Thermoplastic Hose for Ultra High Pressure

From 1600 to 2800 bar (23200 to 40600psi)



应用 Applications

工业应用: 水射流切割, 管道清洁、表面处理与油漆去除, 水力拆除, 船舶、储罐和容器清洁, 水喷砂供应软管, 一般工业清洁, 去除表面堆积的污垢

液压: 液压千斤顶, 螺栓拉伸, 超高压测试应用, 一般超高压液压应用

Industrial applications: Waterjet cutting, Tube cleaning, surface preparation and paint removal, Hydro demolition, Ships, tanks and vessel cleaning, Waterblast supply hose, General industrial cleaning, Removal of accumulated dirt from surfaces

Hydraulics: Hydraulic jacks, Bolt tensioning, Testing UHP applications, General UHP hydraulic applications

结构 Construction

内芯: 聚甲醛 (POM)
增强层: 多层高强度钢丝
外覆层: 聚酰胺 (PA)

Inner Core: Polyoxymethylene (POM)
Reinforcement: Multi layers of high-tensile steel wire
Outer Cover: Polyamide (PA)

颜色编码 Color Code

- 20000PSI---1379BAR
- 30000PSI---2068BAR
- 40000PSI---2758BAR

温度Temperature

-30°C to +70°C [-22°F to 158°F]

Part No.	Hose Size			ID		OD		WP		BP		Bending radius		Weight	
	DASH	INCH	DN	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	kg/m	lbs/ft
5/6HW	3	3/16	5	4.6	0.18	14.4	0.57	2800	40600	7000	101500	220	8.66	0.56	0.377
6/6HW	4	1/4	6	5.9	0.23	16.4	0.65	2800	40600	7000	101500	250	9.84	0.75	0.503
8/6HW	5	5/16	8	7.7	0.3	18.8	0.74	2500	36250	6250	90625	260	10.24	0.93	0.62
13/6HW	8	1/2	12	12.7	0.5	24.8	0.98	2000	29000	5000	72500	300	11.81	1.2	0.804
19/6HW	12	3/4	20	18.8	0.74	32.8	1.29	1600	23200	4000	58000	350	13.78	2.17	1.77

Core -8W

AlienSpir Core Series

Thermoplastic Hose for Ultra High Pressure

From 3010 to 3800 bar (43600 to 55000psi)



应用 Applications

工业应用: 水射流切割, 管道清洁、表面处理与油漆去除, 水力拆除, 船舶、储罐和容器清洁, 水喷砂供应软管, 一般工业清洁, 去除表面堆积的污垢

液压: 液压千斤顶, 螺栓拉伸, 超高压测试应用, 一般超高压液压应用

Industrial applications: Waterjet cutting, Tube cleaning, surface preparation and paint removal, Hydro demolition, Ships, tanks and vessel cleaning, Waterblast supply hose, General industrial cleaning, Removal of accumulated dirt from surfaces

Hydraulics: Hydraulic jacks, Bolt tensioning, Testing UHP applications, General UHP hydraulic applications

结构 Construction

内芯: 聚甲醛 (POM)
增强层: 多层高强度钢丝
外覆层: 聚酰胺 (PA)

Inner Core: Polyoxymethylene (POM)
Reinforcement: Multi layers of high-tensile steel wire
Outer Cover: Polyamide (PA)

颜色编码 Color Code

- 40000PSI---2758BAR
- 55000PSI---3792BAR

温度Temperature

-30°C to +60°C [-22°F to 140°F]

Part No.	Hose Size			ID		OD		WP		BP		Bending radius		Weight	
	DASH	INCH	DN	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	kg/m	lbs/ft
4/8W	2.5	5/32	4	4	0.16	12.8	0.5	3200	46400	8000	116000	175	6.89	0.54	0.362
5/8W	3	3/16	5	4.7	0.19	16	0.63	3800	55000	8500	123000	230	9.05	0.78	0.526
8/8W	5	5/16	8	7.6	0.3	22	0.87	3800	55000	9000	130000	300	11.81	1.51	1.015
12/8W	8	1/2	12	12.8	0.5	28.7	1.13	3010	43600	6250	90500	350	13.78	2.35	1.57

UHP
AlienSpir Ultra-High pressure

Thermoplastic Hose for Ultra High Pressure
From 2000 to 4000 bar (29000 to 58000psi)



应用 Applications

工业应用: 水射流切割, 管道清洁、表面处理与油漆去除, 水力拆除, 船舶、储罐和容器清洁, 水喷砂供应软管, 一般工业清洁, 去除表面堆积的污垢

液压: 液压千斤顶, 螺栓拉伸, 超高压测试应用, 一般超高压液压应用

Industrial applications: Waterjet cutting, Tube cleaning, surface preparation and paint removal, Hydro demolition, Ships, tanks and vessel cleaning, Waterblast supply hose, General industrial cleaning, Removal of accumulated dirt from surfaces

Hydraulics: Hydraulic jacks, Bolt tensioning, Testing UHP applications, General UHP hydraulic applications

结构 Construction

内芯: 聚甲醛 (POM)

增强层: 多层高强度钢丝

外覆层: 聚酰胺 (PA)

Inner Core: Polyoxymethylene (POM)

Reinforcement: Multi layers of high-tensile steel wire

Outer Cover: Polyamide (PA)

颜色编码 Color Code

- 30000PSI---2068BAR
- 40000PSI---2758BAR
- 55000PSI---3792BAR

温度Temperature

-30°C to +70°C [-22°F to 158°F]

Part No.	Hose Size			ID		OD		WP		BP		Bending radius		Weight	
	DASH	INCH	DN	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	kg/m	lbs/ft
UHP4	2.5	5/32	4	4	0.16	9.90	0.39	3035	44008	7588	110019	90	3.54	0.23	0.157
UHP5	3.0	3/16	5	4.5	0.18	15.30	0.60	3200	46400	8000	116000	250	9.84	0.69	0.464
UHPX5	3.0	3/16	5	4.5	0.18	15.30	0.60	4000	58000	10000	145000	250	9.84	0.69	0.464
UHP6	4.0	1/4	6	5.8	0.23	18.60	0.73	3200	46400	8000	116000	280	11.02	1.06	0.710
UHP8	5.0	5/16	8	7.6	0.30	19.30	0.76	2800	40600	7000	101500	300	11.81	1.06	0.707
UHPX8	5.0	5/16	8	7.6	0.30	19.30	0.76	3035	44008	7588	110019	300	11.81	1.06	0.707
UHPX8-DC	5.0	5/16	8	7.6	0.30	23.30	0.76	3035	44008	7588	110019	300	11.81	1.24	0.833
UHPX8-HW	5.0	5/16	8	7.6	0.30	22.00	0.87	3200	46400	8000	116000	300	11.81	1.50	1.005
UHPX10	6.0	3/8	10	9.8	0.39	24.00	0.94	3035	44008	7588	110019	320	12.6	1.73	1.163
UHP13	8.0	1/2	12	12.8	0.50	27.70	1.09	2800	40600	7000	101500	350	13.78	2.09	1.397
UHP13-DC	8.0	1/2	12	12.8	0.50	32.10	1.26	2800	40600	7000	101500	350	13.78	2.28	1.532
UHP16	10.0	5/8	16	15.9	0.63	31.80	1.25	2000	29000	5000	72500	400	15.75	2.52	1.690

软管正确装配安装指南 Correct Assembly Installation of Hose

总体要求 General Requirements

软管装配的性能和外观取决于正确的安装方式。
过长会破坏设备的整洁外观，且不必要地增加成本。
过短则无法允许充分的弯曲、膨胀或收缩，会导致动力传输不良并缩短软管寿命。

Satisfactory performance and appearance of hose assemblies depend on proper installation.
Excessive length destroys the trim appearance of the equipment and adds unnecessarily to the cost.
Insufficient length to permit adequate flexing, expansion or contraction will cause poor power transmission and shorten the life of the hose.

1 长度预留 Length Slack

由于软管在高压冲击下长度可能发生变化，需预留足够的松弛量以适应膨胀和收缩。
Since hose may change in length under the surge of high pressure, provide sufficient slack for expansion and contraction.



2 弯曲与引出 Bending and Exit

软管应从接头处呈直线引出，而非侧向受力。必须不超过最小弯曲半径，以免软管扭结和流量受限。
Hose should exit coupling in a straight position rather than side loaded. The minimum bend radius must not be exceeded to avoid kinking of hose and flow restriction.



3 角度适配器的使用 Use of Angle Adapters

当弯曲半径低于要求的最小值时，应使用角度适配器以避免软管出现锐弯。
Where the radius falls below the required minimum, an angle adapter should be used to avoid sharp bends in hose.



4 避免扭曲 Avoid Sharp Twist or Bend

通过使用合适的角度适配器，避免软管出现尖锐的扭曲或弯折。
Avoid sharp twist or bend in hose by using proper angle adapters.



5 扭转规避 Avoid Torsion

软管在扭转状态下安装会被削弱。此外，扭转软管中的压力脉冲容易使钢丝疲劳并导致接头连接松动。设计时应确保机器运动产生的是弯曲而非扭转。
Hose is weakened when installed in twisted position. Also, pressure pulses in twisted hose tend to fatigue wire and loosen fitting connections. Design so that machine motion produces bending rather than torsion.



超高压树脂管化学耐受性表 Chemical Compatibility

分类代码 Classification Code

- A：流体无影响或影响极小

B：流体有轻微或中等影响

C：流体有严重影响

-：无数据
- A The fluid has a minimum or absent effect

B The fluid has a weak or moderate effcet

C The fluid has a serious effect

- Not available

化学产品 (Chemical Product)	聚合物 (Polyester)	聚酰胺 (Polyamide)	聚氨酯 (Polyurethane)	聚甲醛 (POM)
乙醛 (Acetaldehyde)	-	A	C	A
乙酸 10% (Acetic Acid, 10%)	A	B	C	A
丙酮 (Acetone)	B	A	C	A
乙炔 (Acetylene)	A	-	-	A
氨水 10% (Ammonia, 10%)	-	A	C	A
碳酸铵 10% (Ammonium Carbonate, 10%)	-	-	-	-
氯化铵 10% (Ammonium Chloride, 10%)	A	A	-	B
氢氧化铵 (Ammonium Hydroxide)	-	-	C	C
硫酸铵 (Ammonium Sulfate)	B	-	C	B
乙酸戊酯 (Amyl Acetate)	B	B	C	B
戊醇 (Amyl Alcohol)	A	A	C	A
苯胺 (Aniline)	C	B	C	-
氯化锑 10% (Antimony Chloride, 10%)	-	-	-	-
Astm Fuel A	A	A	-	-
Astm Fuel B	A	A	-	-
Astm Fuel C	B	A	-	-
Astm Oil N.1	A	A	B	-
Astm Oil N.3	A	B	-	-
莠去津 (Atrazine)	A	-	-	-
氯化钡 10% (Barium Chloride, 10%)	-	-	A	A
硫酸钡 10% (Barium Sulfate, 10%)	-	-	A	B
啤酒 (Beer)	A	A	A	A
苯 (Benzene)	B	A	C	B
苯甲酸 10% (Benzoic Acid, 10%)	-	B	-	B
硼砂溶液 (Borax Solutions)	A	A	A	B
硼酸 10% (Boric Acid, 10%)	A	A	A	A
无水溴 (Bromine (Anhydrous))	C	C	C	-
溴水 25% (Bromine Water, 25%)	-	-	-	-
丁烷 (Butane)	A	A	A	A
丁酸 10% (Butyric Acid, 10%)	-	B	-	B
乙酸丁酯 (Butyl Acetate)	B	A	C	A
丁醇 (Butyl Alcohol)	-	A	C	A
氯化钙 5% (Calcium Chloride, 5%)	A	A	A	-
次氯酸钙 5% (Calcium Hypochlorite, 5%)	A	A	C	-
硫氰酸钙 (Calcium Thiocyanate)	-	-	-	-
二氧化碳 (Carbon Dioxide)	A	A	A	A
二硫化碳 (Carbon Disulfide)	B	A	-	A
一氧化碳 (Carbon Monoxide)	A	-	A	A
四氯化碳 (Carbon Tetrachloride)	B	B	C	A
碳酸 10% (Carbonic Acid, 10%)	A	-	A	-
氯 (干) (Chlorine (Dry))	C	C	C	C
氯 (湿) (Chlorine (Wet))	C	C	C	C
氯乙酸 10% (Chloroacetic Acid, 10%)	C	C	C	C
氯苯 (Chlorobenzene)	C	C	C	B
氯仿 (Chloroform)	C	C	-	C
氯磺酸 (Chlorosulfonic Acid)	C	C	C	C
铬酸 10% (Chromic Acid, 10%)	C	C	C	C
柠檬酸溶液 (Citric Acid Solutions)	A	-	B	B
氯化铜 10% (Copper Chloride, 10%)	A	-	A	A
氰化铜 (Copper Cyanide)	-	-	A	A
硫酸铜溶液 (Copper Sulfate Solutions)	A	-	A	-
棉籽油 (Cottonseed Oil)	A	-	A	-
甲酚 (Cresol)	-	-	C	C
环己烷 (Cyclohexane)	A	A	B	A
邻苯二甲酸二丁酯 (Dibutyl Phthalate)	A	A	C	A
癸二酸二乙酯 (Diethyl Sebacate)	A	-	B	A
邻苯二甲酸二辛酯 (Dioctyl Phthalate)	A	-	B	-
乙醇胺 (Ethanalamine)	-	-	C	C
乙酸乙酯 (Ethyl Acetate)	B	A	C	B
乙醇 (Ethyl Alcohol)	A	A	B	-
氯乙烯 (Ethylene Chloride)	C	B	B	A
乙二醇 (Ethylene Glycol)	A	A	B	B
环氧乙烷 (Ethylene Oxide)	A	-	C	C
氯化铁溶液 (Ferric Chloride Solutions)	-	-	A	B
氟 (Fluorine)	C	C	C	C
甲醛 40% (Formaldehyde, 40%)	B	B	C	A
甲酸 (Formic Acid)	B	C	C	B
Freon R 407C	A	-	-	A
Freon R134a	A	-	-	A

超高压树脂管化学耐受性表 Chemical Compatibility

化学产品 (Chemical Product)	聚合物 (Polyester)	聚酰胺 (Polyamide)	聚氨酯 (Polyurethane)	聚甲醛 (POM)
汽油 (Gasoline)	B	A	-	A
甘油 (Glycerin)	A	A	B	A
乙醇酸 (Glycolic Acid)	-	-	-	-
己烷 (Hexane)	A	A	B	A
肼 (Hydrazine)	C	-	C	B
盐酸 10% (Hydrochloric Acid, 10%)	B	C	C	C
氢气 (Hydrogen)	A	A	A	A
过氧化氢 5% (Hydrogen Peroxide, 5%)	-	B	-	-
硫化氢 5% (Hydrogen Sulfide, 5%)	A	C	-	C
异丁烷 (Isobutane)	A	A	B	A
异丙醇 (Isopropyl Alcohol)	A	B	B	A
乳酸 10% (Lactic Acid, 10%)	-	A	-	A
亚麻籽油 (Linseed Oil)	A	A	A	A
汞 (Mercury)	-	A	-	-
甲醇 (Methyl Alcohol)	A	A	C	-
氯甲烷 (Methyl Chloride)	C	C	C	B
甲基乙基酮 (Methyl Ethyl Ketone)	B	A	C	B
二氯甲烷 (Methylene Chloride)	C	C	C	B
矿物油 (Mineral Oil)	A	A	A	A
石脑油 (Naphtha)	B	A	C	A
萘 (Naphthalene)	A	A	B	A
硝酸 10% (Nitric Acid, 10%)	B	C	C	C
硝酸 30% (Nitric Acid, 30%)	C	B	C	B
硝基苯 (Nitrobenzene)	C	C	C	C
硝基甲烷 (Nitromethane)	-	A	-	A
Oil Flat Muter Lhm	-	-	-	-
Oil Mutter Summit Hy Syring 22	A	-	-	-
Oil Parolin 9632	A	-	-	-
Oil Parolin Hip Synth	-	-	-	-
Oil Pentosin Super Dot 4	-	-	-	-
油酸 (Oleic Acid)	A	B	A	A
发烟硫酸 20-25% (Oleum, 20-25%)	C	C	C	C
棕榈酸 (Palmitic Acid)	-	-	A	A
高氯酸 10% (Perchloric Acid, 10%)	A	-	-	B
全氯乙烯 (Perchloroethylene)	C	A	C	A
苯酚 (Phenol)	B	A	B	A
磷酸 10% (Phosphoric Acid (10%))	C	C	C	C
磷酸 50% (Phosphoric Acid, 50%)	-	-	-	A
磷酸 50% (Phosphoric Acid, 50%)	-	-	-	C
碳酸钾 20% (Potassium Carbonate, 20%)	-	-	-	-
碳酸钾 20% (Potassium Carbonate, 20%)	-	-	-	-
氯化钾 90% (Potassium Chloride, 90%)	-	-	A	A
高锰酸钾 5% (Potassium Permanganate, 5%)	B	B	C	-
硫氰酸钾 (Potassium Thiocyanate)	C	C	C	-
Pyr Jal J32	-	-	-	-
海水 (Sea Water)	A	A	C	-
Shell Brake Fluid Dot4	A	A	A	-
硅油 (Silicone Oils)	-	-	-	-
Skykrol 500B	A	A	A	A
Skykrol 500B	A	-	C	-
皂液 (Soap Solution)	A	A	A	A
醋酸钠 60% (Sodium Acetate, 60%)	-	-	C	B
碳酸氢钠 (Sodium Bicarbonate)	-	A	-	A
碳酸钠 (Sodium Carbonate)	-	A	-	A
氯化钠 10% (Sodium Chloride, 10%)	A	A	A	A
氢氧化钠 10% (Sodium Hydroxide, 10%)	A	A	B	A
氢氧化钠 20% (Sodium Hydroxide, 20%)	A	A	B	A
氢氧化钠 50% (Sodium Hydroxide, 50%)	B	C	C	A
次氯酸钠 5% (Sodium Hypochlorite, 5%)	A	B	C	B
硝酸钠 5% (Sodium Nitrate, 5%)	-	-	-	A
硫酸钠 30% (Sodium Sulfate, 30%)	-	-	-	B
硫化钠 (Sodium Sulfide)	-	-	-	B
蒸汽 100°C (Steam (100°C))	-	-	-	-
二氧化硫 (Sulfur Dioxide)	C	C	C	C
硫酸 > 50% (Sulfuric Acid >50%)	C	C	C	C
硫酸 10% (Sulfuric Acid, 10%)	A	B	C	A
硫酸 20-50% (Sulfuric Acid, 20-50%)	A	B	C	C
亚硫酸 10% (Sulfurous Acid, 10%)	B	-	C	B
单宁酸 10% (Tannic Acid, 10%)	A	-	-	B
四氯乙烷 (Tetrachloroethane)	-,-,-,-	-	-	-
四氢呋喃 (Tetrahydrofuran)	B	A	C	B
甲苯 (Toluene)	B	A	C	A
三氯乙烯 (Trichloroethylene)	C	B	C	-
三乙醇胺 (Triethanolamine)	C	-	C	B
磷酸三钠 (Trisodium Phosphate)	A	-	-	A
水 (Water)	A	A	A	A
二甲苯 (Xylene)	B	A	C	A
氯化锌 10% (Zinc Chloride, 10%)	A	A	-	C