



山东天成化工有限公司

Shandong Tiancheng Chemical Co., Ltd.





TIANCHENG

低碳经济 循环产业 我们在行动

Low-carbon economy, circular industry. We are doing

公司简介

山东天成化工有限公司成立于 1999 年，位于山东省专业化工园区——兖州化学助剂产业园内，是一家集研发、生产、销售和服务于一体的高新技术企业。

公司发展 20 多年来，长期聚焦于绿色、多功能精细化工产业领域，通过上下游产业链的整合，产品涉及造纸化学品、纺织印染化学品、水处理化学品、医药中间体及新型功能性材料，产品销售网络遍布全球各地。

公司已通过 ISO9001、ISO14001、OHSAS18001 体系认证和安全三级标准化企业认证，与中科院等科研院所建立了长期的产学研合作关系，成立了天成化工科技研发中心和高端功能化学品重点实验室。

天成化工作为绿色化工、增绿降碳的倡导者和践行者，始终专注和致力于精细化工产业领域，牢固树立“科学发展、高质量发展”理念，不断增强企业综合竞争实力和可持续发展能力。同时，坚持以市场需求为导向，以技术创新为驱动力，大力推动科技成果转化，不断提升在造纸、纺织印染、水处理及高分子聚合物等产品领域的自主创新能力，为建设绿色、环保、节能、高效、有竞争优势的高端精细化学品和新材料产业基地而提供强大的科技动能和智力支持！

Founded in 1999, Shandong Tiancheng Chemical Co., Ltd. is a high-tech enterprise integrating R & D, production, sales and service, which located in Yanzhou chemical auxiliary industrial park, a professional chemical park in Shandong Province.

Tiancheng focused on the green and multi-functional fine chemical industry for long time, since more than 20 years developing. Through the integration of upstream and downstream industrial chains, the products include paper chemicals, textile printing and dyeing chemicals, water treatment chemicals, pharmaceutical intermediates and new functional materials. Product sales network spreads all over the world.

The company has passed the ISO9001, ISO14001, OHSAS18001 system certification and the three-level safety standardization enterprise certification. It has established a long-term cooperation relationship with scientific research institutes such as the Chinese Academy of Sciences, and established the Tiancheng Chemical Science and Technology R&D Center and the Key Laboratory of High-end Functional Chemicals.

As an advocate and practitioner of green chemical industry, increasing green and reducing carbon, Tiancheng Chemical has always focused on and committed to the field of fine chemical industry, firmly established the concept of "scientific development and high-quality development", and constantly enhanced the comprehensive competitive strength and sustainable development ability of the enterprise. At the same time, Tiancheng will adhere to market demand as the guide and technological innovation as the driving force, vigorously promote the transformation of scientific and technological achievements, constantly improve our independent innovation ability in paper making, textile printing and dyeing, water treatment, polymer and other product fields, and provide strong scientific and technological momentum and intellectual support for building a green, environmentally friendly, energy-saving, efficient and competitive high-end fine chemicals and new materials industrial base!

发展历程 Company History

天成化工有限公司成立，迄今已有 20 多年的发展历史。
Tiancheng Chemical was established. For now, it nearly has a history of 20 years.

造纸化学品 AKD 蜡粉产量和质量居世界首位。
The quality and quantity of paper chemicals AKD were ranked to the top internationally.

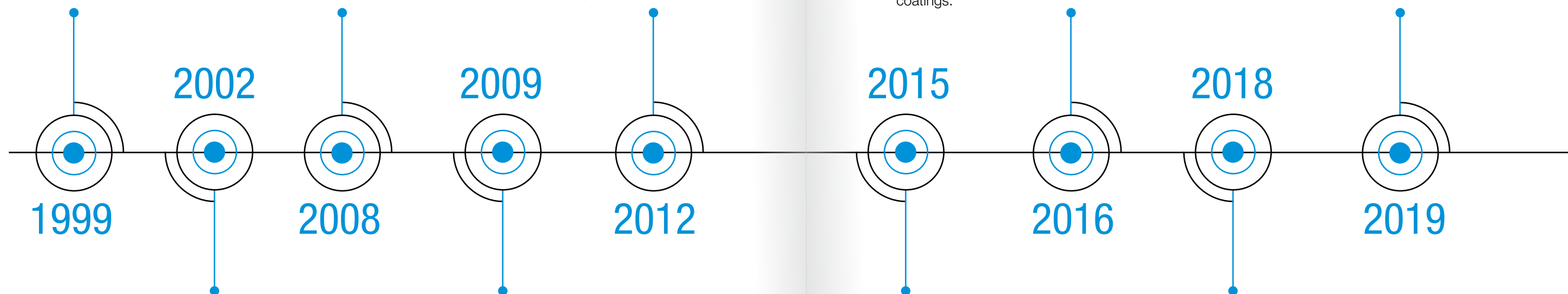
成立山东天成万丰化工科技有限公司，取得光气、氯碱、环氧氯丙烷等稀缺资源的生产建设许可。开始建设集智能、循环、绿色、环保为一体的天成万丰精细化工项目。

Shandong Tiancheng Wanfeng Chemical Technology Co., Ltd. was found, successively obtained production and construction permits for scarce resources of Phosgene, Chlor-Alkali, Epoxy chloropropane and so on. Begin to build Tiancheng Wanfeng fine chemical park with integrating intelligence, intensivism and environmental protection.



从造纸化学品制造商向高端功能化学品制造商转变，为造纸助剂、纺织印染助剂、水处理化学品、树脂及水性涂料等行业提供绿色、高端化学品及技术服务。
Transformed from a papermaking chemical manufacturer to a high-end functional chemical manufacturer, providing green and high-end chemicals and technical services for papermaking auxiliaries, textile printing and dyeing chemicals, water treatment chemicals, resins and water-based coatings.

成立天成新材料（泰国）有限公司，建设年产 6 万吨阳离子改性剂项目和年产 5 万吨酚醛基助剂项目
TIANCHENG NEW MATERIAL (THAILAND) CO., LTD. was established to build a cationic modifier project with an annual output of 60,000 tons and a phenolic-based additive project with an annual output of 50,000 tons.



先后在江苏常州、铜山、新沂和山东泰安、德州建有配套产业基地。
we established supporting industrial bases in Changzhou, Tongshang, Xinyi of Jiangsu province and Taian, Dezhou of Shandong province.

与芬兰凯米拉合资成立“凯米拉天成化学品（兖州）有限公司”。
We set up joint venture "Kemira Tiancheng Chemicals (Yanzhou) Co., Ltd." with Kemira Finland.

天成万丰精细化工项目一期光气、酰氯及配套 AKD 原粉装置建设完成。
The first phase of Tiancheng Wanfeng Fine Chemical Project, construction of phosgene, acid chloride and supporting facilities of AKD wax was completed.

与芬兰凯米拉再次合资合作，组建凯米拉天成万丰化学品（兖州）有限公司，成为全球最大的 AKD 产业基地。
Tiancheng again cooperated with Kemira Finland for establishing a joint venture "Kemira Tiancheng Wanfeng Chemicals (Yanzhou) Co., Ltd.", becoming the world's largest AKD industrial base.





公司技术及研发

Company Technology and R & D

天成化工始终秉承“开放、合作、互惠、共享”的发展理念，坚持“走出去”和“请进来”的开放思路，通过“内联外合”和“借智引智”，构建起以企业为主体、市场为导向、产学研相结合的技术创新体系。

公司高度重视科技进步和自主创新，重视关键技术人才的引进和培养，与中国科学院等科研院所建立了长期的产学研合作关系，建立了天成化工科研基地和高端功能化学品重点实验室。

企业研发中心设有造纸应用实验室、纺织印染及水处理产品研发实验室，拥有小试、中试、小规模模拟工业化生产试验平台、合成提纯精馏一体化装置以及配套中试设备等先进的有机合成化工装置，2021 年被山东省科技厅认定为“山东省绿色多功能单体与聚合物研发中试基地”；现配备有 PTI 纸页成型器、BTG 颗粒电荷测定仪、BTG 动态滤水仪、Agilent 气相色谱仪、岛津液相色谱仪、赛默飞红外光谱仪、布拉本德粘度计、瑞士万通自动电位滴定仪等世界先进的分析检测仪器设备，基础条件较为完备，为产品研发创新、技术突破、工艺优化、品质提升等提供保障。

企业拥有一支综合能力强、专业技术精、勇于创新的高端科研团队，先后研发并获得 8 项发明专利、12 项实用新型专利及 6 项围绕主导产品的软著，其科技成果被工信部评定为“国际先进水平”。企业产品质量深受国内外客户及友人的一致认可，产品销售网络遍布全球各地。

Tiancheng Chemical always adheres to the development concept of "openness, cooperation, mutual benefit and sharing", adheres to the open thinking of "going out" and "inviting in", and builds a technological innovation system with enterprises as the main body, market-oriented, and the combination of production, education and research through "internal connection and external cooperation" and "borrowing wisdom to introduce wisdom".

Tiancheng attaches great importance to scientific and technological progress and innovative development, and attach importance to the introduction and cultivation of key technical talents. Tiancheng has establish long-term industry-university-research cooperation with the Chinese Academy of Sciences and other scientific research institutions and established the Tiancheng Chemical Research Base and the Key Laboratory of High-end Functional Chemicals.

The R & D center has set up a papermaking application laboratory, a textile printing & dyeing and water treatment product R & D laboratory, and has advanced organic synthesis chemical devices such as small-scale, pilot, small-scale simulated industrial production test platforms, synthesis, purification and rectification integrated devices and supporting pilot test equipment. In 2021, it was recognized by the Science and Technology Department of Shandong Province as "Shandong Green Multi-functional Monomer and Polymer R & D Pilot Base". Now it is equipped with world-class advanced analysis and detection instruments and equipment such as PTI paper shaper, BTG particle charge tester, BTG dynamic water filter, Agilent gas chromatograph, Shimadzu liquid chromatograph, thermofisher infrared chromatograph, Brabender viscometer, and Swiss Metrohm automatic potential meter. The basic conditions are perfect, which provide guarantee for product R & D and innovation, technological breakthrough, process optimization, quality improvement, etc.



The company has a high-end scientific research team with strong comprehensive ability, excellent professional technology and the courage to innovate. It has successively developed and obtained 8 invention patents, 12 utility model patents and 6 computer software copy rights focusing on leading products. Its scientific and technological achievements have been rated as "international advanced level" by the Ministry of Industry and Information Technology. The product quality of the enterprise is unanimously recognized by customers and friends at home and abroad, and the product sales network spreads all over the world.



山东天成化工有限公司研发中心
Shandong Tiancheng Chemical Co., Ltd.
R & D CENTER

2011 年，由兖州市科学技术局颁发
Issued by Yanzhou Science and Technology
Bureau in 2011.

济宁市认定企业技术中心
Jining City Certified Enterprise Technology Center

2018 年，由济宁市经济和信息化委员会颁发
Issued by Jining Economic and Informatization Com
mission in 2018.



济宁市高端功能化学品重点实验室
Jining High-end Functional Chemicals
Key Laboratory

2018 年，由济宁市科学技术局颁发
Issued by Jining Science and Technology
Bureau in 2018.



ISO
9001



ISO
14001



OHSAS
18001



集高度自动化、绿色环保、合理资源配置为一体的生产基地
Production base with high automation, environmental protection and reasonable resource allocation



高端精密的设备设施创造高品质精细化工
High-end and precision equipments and facilities to create high-quality fine chemicals



1 美国安捷伦 7890A 气相色谱仪 US Agilent 7890a Gas Chromatograph
2 理化实验室 Physics and chemistry laboratory
3 自动化控制室 Automatic Control Room
4、5、6 生产车间 Workshop

产品目录 Products Index

制浆造纸化学品

- ① AKD 施胶剂
- ② 表面施胶剂
- ③ 纤维增强剂
- ④ 湿强剂
- ⑤ 润滑剂
- ⑥ 干强剂
- ⑦ 抗水剂
- ⑧ 固着剂

AKD 施胶剂配套化学品

- ① AKD 蜡粉
- ② AKD 乳化剂
- ③ 阳离子醚化剂
- ④ 高分子乳化剂
- ⑤ 熟化促进剂

纺织印染化学品

- ① 阳离子改性剂
- ② 固色剂
- ③ 加深剂
- ④ 数码喷涂前处理液
- ⑤ 数码喷涂后整理液
- ⑥ 成衣改性剂

水处理化学品

- ① 聚合氯化铝
- ② 聚合硫酸铁
- ③ 聚丙烯酰胺
- ④ 脱色剂
- ⑤ 阴离子垃圾捕捉剂

Pulp and paper chemicals

- ① AKD sizing agent
- ② Surface Sizing Agent
- ③ Fiber reinforcement
- ④ Wet strength agent
- ⑤ Lubricant
- ⑥ Dry-Strengthening Agent
- ⑦ Water-resistant Agent
- ⑧ Fixing Agent

AKD Sizing Agent Supporting Chemicals

- ① AKD wax powder
- ② AKD emulsifier
- ③ Cationic Reagnt (PTAC)
- ④ Polymer emulsifier
- ⑤ Cationic Reagnt (Polydadmac)

Textile Printing and Dyeing Chemicals

- ① Cationic modifier
- ② Color fixing agent
- ③ Deepening agent
- ④ Digital spraying pretreatment liquid
- ⑤ Digital spray finishing liquid
- ⑥ Garment modifier

Water Treatment Chemicals

- ① Polyaluminum chloride
- ② Polymeric ferric sulfate
- ③ Polyacrylamide
- ④ Decolorizer
- ⑤ Anionic trash catcher

制浆造纸化学品 Pulp and paper chemicals

AKD 施胶剂

外观	乳白色液体	
固含量 (%)	15.0±0.5	19.0±0.5
pH 值	3 ~ 4	
粘度 mpa.s	≤15	≤25

表面施胶剂

外观	乳白色液体	
固含量 (%)	15.0±0.5	20.0±0.5
pH 值	2 ~ 4	
粘度 mpa.s	≤ 50.0	≤ 25.0

纤维增强剂

外观	无色或微黄色透明液体	
固含量 (%)	11.5±0.5	
pH 值	2 ~ 4	
粘度 mpa.s	10 ~ 100	

湿强剂

外观	淡黄色至浅琥珀色半透明液体	
固含量 (%)	12.5±0.5	
pH 值	3 ~ 5	
粘度 mpa.s	25 ~ 75	

润滑剂

外观	无色至浅黄色透明液体	
固含量 (%)	20.0±1.0	25.0±2.0
pH 值	6 ~ 10	
粘度 mpa.s	≤ 100	

AKD Sizing Agent

Appearance	Milk white liquid	
Solid content (%)	15.0±0.5	19.0±0.5
Ph Value	3 ~ 4	
Viscosity mpa.s	≤15	≤25

Surface Sizing Agent

Appearance	Milk white liquid	
Solid content (%)	15.0±0.5	20.0±0.5
Ph Value	2 ~ 4	
Viscosity mpa.s	≤ 50.0	≤ 25.0

Fiber Reinforcing Agent

Appearance	Colorless or slightly yellow transparent liquid	
Solid content (%)	11.5±0.5	
Ph Value	2 ~ 4	
Viscosity mpa.s	10 ~ 100	

Wet Strength Agent

Appearance	Light yellow to light amber translucent liquid	
Solid content (%)	12.5±0.5	
Ph Value	3 ~ 5	
Viscosity mpa.s	25 ~ 75	

Lubricant

Appearance	Colorless to light yellow translucent liquid	
Solid content (%)	20.0±1.0	25.0±2.0
Ph Value	6 ~ 10	
Viscosity mpa.s	≤ 100	

制浆造纸化学品
Pulp and paper chemicals

干强剂

外观	无色透明粘稠液体	
固含量 (%)	15.0±1.0	20.0±1.0
pH 值	3 ~ 5	
粘度 mpa.s	4000 ~ 10000	

抗水剂

涂料用耐水剂	
外观	无色至黄色透明液体
固含量 (%)	50.0±2.0
pH 值	6 ~ 10
粘度 mpa.s	≤ 100

碳酸锆铵类耐水化剂

外观	无色透明至稍浑浊液体
固含量 (%)	25.0±1.0
pH 值	7 ~ 10
粘度 mpa.s	≤ 100

固着剂

外观	无色至浅黄色粘稠液体
固含量 (%)	≥50.0
PH 值	2.0~5.0
粘度 mpa.s	50~200

Dry-Strengthening Agent

Appearance	Colorless liquid	
Solid content (%)	15.0±1.0	20.0±1.0
Ph Value	3 ~ 5	
Viscosity mpa.s	4000 ~ 10000	

Water-resistant Agent

Water resistance for coatings	
Appearance	colorless to yellow transparent liquid
Solid content (%)	50.0±2.0
Ph Value	6 ~ 10
Viscosity mpa.s	≤ 100

Ammonium zirconium carbonate type water-resistant agent

Appearance	colorless transparent to slightly turbid liquid
Solid content (%)	25.0±1.0
Ph Value	7 ~ 10
Viscosity mpa.s	≤ 100

Fixing Agent

Appearance	Colorless or yellow viscous solution
Solids Content(%)	≥50.0
pH Number	2.0~5.0
Viscosity mpa.s	50~200

AKD 施胶剂配套化学品
AKD Sizing Chemicals

AKD 蜡粉

外 观	浅黄色颗粒
纯度 (%)	≥ 88
碘值 (gI ₂ /100g)	≥ 44
熔 点 (°C)	47.4 ~ 48.9
酸值 (mgKOH/g)	≤ 5.0

AKD 乳化剂

外观	红棕色液体
固含量 %	25.0±0.5
pH 值	3 ~ 5
粘度 (mpa.s/25 °C)	50~120

阳离子醚化剂

外观	无色透明液体
活性物含量 (%)	≥ 69.0
pH 值 (10% 水溶液)	4 ~ 7
1,3- 二氯丙醇	≤ 10ppm
环氧氯丙烷	≤ 5ppm

高分子乳化剂

外 观	浅黄色液体
含量, %	40.0±1.0
pH 值	2 ~ 4
粘度 mpa.s/25℃	2000 ~ 8000

熟化促进剂

外观	无色至淡黄色粘稠液体
固含量 (%)	40.0±1.0
pH 值	4 ~ 7
粘度 (mPa·s)	7000 ~ 10000

AKD Wax

Appearance	Pale yellow Grain
Purity (%)	≥ 88
Iodine number (gI ₂ /100g)	≥ 44
Melting point (°C)	47.4 ~ 48.9
Acid value (mgKOH/g)	≤ 5.0

AKD Emulsifier

Appearance	Red brown liquid
Solid content %	25.0±0.5
PH value	3 ~ 5
Viscosity (mpa.s/25°C)	50 ~120

Cationic Reagnt (PTAC)

Appearance	Colorless liquid
Active Ingredient Content (%)	≥ 69.0
pH value (10% aqueous solution)	4 ~ 7
1,3-dichloropropanol	≤ 10 ppm
Epichlorohydrin	≤ 5 ppm

Polymer Emulsifier

Appearance	Light Yellow Liquid
Content,%	40.0±1.0
pH Value	2 ~ 4
Viscosity mpa.s/25℃	2000 ~ 8000

Curing Agent (Polydadmac)

Appearance	Colorless to pale yellow sticky liquid
Solid Content (%)	40.0±1.0
pH value	4 ~ 7
Viscosity mpa.s	7000 ~ 10000

纺织印染化学品

Textile Printing and Dyeing Chemicals

阳离子改性剂

阳离子改性剂 K66	
外观	淡黄色透明液体
活性物含量	≥65%
pH 值	4-7（10% 溶液）
冷冻结晶点	≤ -10℃
1,3—二氯丙醇	≤ 10PPM
环氧氯丙烷	≤5 PPM
溶解性	易溶于水，溶于低级醇，不溶于烃类、醚类等弱极性溶剂

阳离子改性剂 K67	
外观	无色至淡黄色透明液体
活性物含量	≥65%
pH 值	4-7（10% 溶液）
冷冻结晶点	≤ -10℃
1,3—二氯丙醇	≤ 10PPM
环氧氯丙烷	≤5 PPM
溶解性	易溶于水，溶于低级醇，不溶于烃类、醚类等弱极性溶剂

阳离子改性剂 K68	
外 观	无色透明液体
酸碱性	弱酸性
离子性	阳离子
溶解性	可与水任意比互溶
环保性	符合环保标准，不含禁用物质

固色剂

固色剂 TC-066	
外观	无色至淡黄色透明液体
固含量 %	≥ 50.0
pH 值（直测）	2 ~ 6
粘度 (mpa.s,20℃)	100 ~ 1000

固色剂 TC-067	
外观	无色至浅黄色粘稠液体
固含量 %	≥ 50.0
PH 值	2 ~ 6
粘度（mpa.s, 25℃）	50 ~ 200

固色剂 TC-068	
外观	无色至淡黄色粘稠液体
固含量 %	40.0±1.0
PH 值	4 ~ 7
粘度（mpa.s, 25℃）	7000 ~ 12000

Cationic modifier

Cationic Modifier K66	
Appearance	Light yellow transparent liquid
Active substance content	≥65%
PH Value	4-7（10%solution）
Freezing crystallization point	≤ -10℃
1,3—Dichloropropanol	≤ 10PPM
Epichlorohydrin	≤5 PPM
Solubility	Easily soluble in water, soluble in lower alcohols, insoluble in weak polar solvents such as hydrocarbons and ethers

Cationic Modifier K67	
Appearance	Colorless to light yellow transparent liquid
Active substance content	≥65%
PH Value	4-7（10%solution）
Freezing crystallization point	≤ -10℃
1,3—Dichloropropanol	≤ 10PPM
Epichlorohydrin	≤5 PPM
Solubility	Easily soluble in water, soluble in lower alcohols, insoluble in weak polar solvents such as hydrocarbons and ethers

Cationic Modifier K68	
Appearance	Colorless transparent liquid
Acidity and alkalinity	faintly acid
Ionicity	cation
Solubility	Can be miscible with water at any ratio
Environmental protection	Comply with environmental protection standards and do not contain prohibited substances

Dye Fixing Agent

Fixing agent TC-066	
Appearance	colorless to slight yellow transparent liquid
Solid content %	≥ 50.0
PH value(direct detection)	2 ~ 6
Viscosity (mpa.s 20℃)	100 ~ 1000

Fixing agent TC-067	
Appearance	colorless to light yellow viscous liquid
Solid content %	≥ 50.0
PH value	2 ~ 6
Viscosity (mpa.s, 25℃)	50 ~ 200

Fixing agent TC-068	
Appearance	colorless to light yellow viscous liquid
Solid content%	40.0±1.0
PH value	4 ~ 7
Viscosity (mpa.s, 25℃)	7000 ~ 12000

纺织印染化学品

Textile Printing and Dyeing Chemicals

增深剂

颜色	无色透明液体
固含量 (%)	≥ 60
pH 值	2 ~ 6
溶解性	与水任意比互溶
产品特点	产品使用操作简单；增强染料和颜色性能；减少了染料、水和能源的使用

数码喷涂前处理液 TC-1712

外观	无色至浅棕色液体
固含量	30±1%
pH 值	3.0 - 6.0
溶解性能	可以任何比例水稀释

数码喷涂后整理液 TC-1718

外观	乳白色液体
离子性	弱阳\非离子
pH 值	6.0 ~ 7.0（10% 水溶液）
溶解性	可以任意比例分散于水中
挥发性	常温下稳定、不挥发
环保性	不含任何 APEO 等违禁成份

成衣改性剂 TC-166

外观	红棕色液体
离子性	阳离子性
pH 值	3±1
稳定性	在酸性介质时稳定
溶解性	可与冷、温热水任意比混溶

Deepening Agent

Color	Colorless transparent liquid
Solid content (%)	≥ 60
PH Value	2 ~ 6
Solubility	Can be miscible with water at any ratio
Product features	The product is easy to use and operate; Enhance dye and color properties; Reduced use of dyes, water and energy.

Digital Spraying Pretreatment Liquid TC-1712

Appearance	Colorless to light brown liquid
Solid content	30±1%
PH Value	3.0 - 6.0
Solubility	Can be miscible with water at any ratio

Digital Spray Finishing Liquid TC-1718

Appearance	Milky liquid
Ionicity	Weak positive/ Nonionic
PH Value	6.0 ~ 7.0（10%aqueous solution）
Solubility	Can be dispersed in water in any proportion
Solatility	Stable and nonvolatile under normal temperature
Environmental protection	No prohibited ingredients such as APEO

Garment Modifier TC-166

Appearance	Red brown liquid
Ionicity	Cationic
PH Value	3±1
Stability	Stable in acidic medium
Solubility	Can be miscible with cold, warm and hot water at any ratio

水处理化学品

Water Treatment Chemicals

聚合氯化铝

指标名称	液体	固体
氧化铝含量 (%) ≥	10	29
盐基度 (%)	45 ~ 90	
密度	1.12	-
水不溶物 % ≤	0.1	
pH 值 (10g/L 水溶液)	3.5 ~ 5	

聚合硫酸铁

指标名称	一等品		合格品	
	液体	固体	液体	固体
全铁的质量分数 Fe % ≥	11	19.5	11	19.5
还原性物质的质量分数 Fe2+ % ≤	0.1	0.15	0.1	0.15
盐基度 B %	8.0 ~ 16.0		5.0 ~ 20.0	
pH 值 (10g / L 水溶液)	1.5 ~ 3.0			
密度 (20℃) ≥	1.45	-	1.45	-
不溶物的质量分数 % ≤	0.2	0.4	0.3	0.6

聚丙烯酰胺

阳离子聚丙烯酰胺	
阳离子度, w/%	5.0≤w≤95.0
分子量 (万) ,M	M≥100×104
固含量, w1/%	w1≥88.0
丙烯酰胺单体含量 (干基) , w2/%	w2≤0.10
溶解时间 (1g/L) , t/min	t≤60
水不溶物, w3/%	w3≤0.30

脱色剂

外观	无色至淡黄色粘性液体
固含量	≥50%
pH	≤5.0
粘度 (25℃, cps)	≤500

阴离子垃圾捕捉剂

外观	无色至浅黄色液体
固含量 (%)	≥ 50.0
pH 值	2 ~ 5
粘度 mpa.s	50 ~ 200

Polyaluminum chloride

Index name	GB15892-2018	
	Liquid	solid
Alumina content (%) ≥	10	29
Salinity (%)	45 ~ 90	
Density	1.12	-
Water insoluble matter% ≤	0.1	
pH value (10g / L aqueous solution)	3.5 ~ 5	

Polymeric ferric sulfate

Index name	First class		Qualified class	
	Liquid	Solid	Liquid	Solid
Total iron % ≥	11	19.5	11	19.5
Reducing substances (Fe2+) % ≤	0.1	0.15	0.1	0.15
Basicity B %	8.0 ~ 16.0		5.0 ~ 20.0	
pH (1% water solution)	1.5 ~ 3.0			
Relative density g/cm3 (20℃) ≥	1.45	-	1.45	-
Undissolved substance % ≤	0.2	0.4	0.3	0.6

Polyacrylamide

CPAM	
Degree of positive ion, w /%	5.0≤w≤95.0
Molecular weight (ten thousand), M	M≥100×104
Solid content, w1 /%	w1≥88.0
Acrylamide monomer content (dry basis), w2 /%	w2≤0.10
Dissolution time (1g / L), t / min	t≤60
Water insoluble matter, w3 /%	w3≤0.30

Decolorizer

Appearance	Colorless to faint viscous liquid
Solid content	≥50%
PH Value	≤5.0
Viscosity (25℃, cps)	≤500

Anionic Trash Catcher

Appearance	Colorless or pale yellow liquid
Solid content (%)	≥ 50.0
Ph Value	2 ~ 5
Viscosity mpa.s	50 ~ 200

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