DLX
Particle Technology

德立信

立足科技进步，不断追求卓越
Foothold on the progress of science and technology
continuous commitment to excellence

浙江德立信微纳科技有限公司
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中国·浙江
Zhejiang , China

公司简介

浙江德立信微纳科技有限公司成立于2014年，专注于硅溶胶研发。公司提供各种规格的二氧化硅胶体溶液与分散体，可广泛应用于电子、抛光、涂料、造纸、食品、催化剂载体、精密铸造与耐火材料等行业，具有年产1万吨能力。

公司依托中国科学院资深技术团队、利用后发优势，公司硅胶产品特色包括颗粒（粒径、硬度、纯度、形貌、聚集态等）控制技术、表面改性技术及节能降耗技术。

公司以ISO9000体系进行管理，以质量求生存、以技术求发展、以管理求效益；凭借高效的研发队伍、先进的工艺技术、科学的管理方法；通过技术创新、管理创新、产品创新，向顾客提供各种质优价廉的产品，以满足各种行业日益发展的需求。

Company Introduction

Zhejiang Delixin Mico Nano Technology Corporation was founded in 2014 and focuses onR&D of colloidal silica. It can supply various types of colloidal silicas,which can be widely used in the fields of electronics,polishing,coating,papermaking,food,catalysis carrier,precision casting and refractory material.The annual production capacity is 10,000 tons.

The company was founded based on senior tehnology team from Chinese Academy of Sciences and takes full advantages of late-development. The charateristics of its colloidal silica products include particle control technologies in size,hardness,purity,morphology and aggreation,surface modification technology and technologies in energy saving and consumption reducing.

The company is managed by ISO9000 system,survives with high quality,develops with technology and seeks benefit with management.Depending on high efficient R&D team,advanced process technology,scientific mangement method and through technology innovation,management innovation and product innovation,the company supplies customers all kinds of good and cheap products to satisfy the growing needs of various fields.

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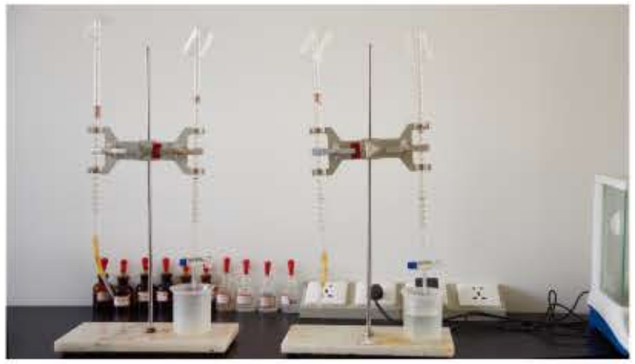
◇留样 Retention samples

◇品质检测 Quality inspection



◇车间 workshop

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产品一览 Products List

产品类型 Product Type	产品型号 Product Model	粒径 Particle size(nm)	固含量 SiO_2 Content(wt%)	pH	保质期 Shelf Hfe(month)	用途 Application
常规硅溶胶 Common	JN8-30/1	7-9(BET)	29.0-31.0	9.5-10.5	12	普通面层
	JN8-30/2	7-9(BET)	29.0-31.0	9.5-10.5	12	高透气性面层
	JN14-30/1	13-15(BET)	29.0-31.0	9.5-10.5	12	普通背层
	JN14-30/2	13-1(BET)	29.0-31.0	9.5-10.5	12	普通背层
	JN30-35/1	20-40(BET)	34.0-36.0	9.5-10.5	12	高强度背层
	JN50-40/1	30-50(BET)	39.0-41.0	9.5-10.5	12	面层快干
	JN15-30/1	9-15(BET)	29.0-31.0	9.5-10.5	12	普通耐火材料用
	JN15-30/1	9-15(BET)	29.0-31.0	9.5-10.5	12	高档耐火材料
小粒径硅溶胶 Small Particle size	JN5-20/1	5-7(BET)	19.0-21.0	9.5-10.5	12	普通金属涂层防腐
	JN5-20/2	5-7(BET)	19.0-21.0	9.5-10.5	12	造纸助留剂
	JN5-20/3	5-(BET)	19.0-21.0	9.5-10.5	12	酿酒与果汁净化
	JA5-20/1	5-7(BET)	19.0-21.0	9.5-10.5	12	高档金属涂层
大粒径硅溶胶 Large particle size	JN20-40/1	18-22nm(DLS)	39.0-40.5	9.5-10.5	12	高光相纸，亮度高
	JN20-40/2	18-22nm(DLS)	39.0-40.5	9.5-10.5	12	丙烯晴催化器载体
	JN20-40/1	18-22nm(DLS)	39.0-40.5	9.5-10.5	12	高纯度催化剂载体
	JA35-45/1	33-37nm(DLS)	39.0-40.5	9.5-10.5	12	高光相纸，吸墨性好
	JN40-40/1	40-45nm(DLS)	39.0-40.5	9.5-10.5	12	玻璃抛光
	JN80-40/1	78-85nm(DLS)	39.0-40.5	9.5-10.5	12	金属及半导体抛光
	JN100-40/1	95-105nm(DLS)	39.0-40.5	9.5-10.5	12	蓝宝石抛光
	JN110-40/1	110-115nm(DLS)	39.0-40.5	9.5-10.5	12	蓝宝石抛光
	JN120-40/1	115-120nm(DLS)	39.0-40.5	9.5-10.5	12	半导体抛光

满足顾客需求、成就自身价值
Satisfaction of customer's requirements, achievement of self-fulfillment

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铵型硅溶胶 Ammonium-type	JA5-20/1	5-7(BET)	19.0-21.0	9.5-10.5	12	高档金属涂层
	JA15-30/1	9-15(BET)	29.0-31.0	9.5-10.5	12	高档耐火材料
	JA20-40/1	18-22(DLS)	39.0-40.5	9.5-10.5	12	高纯度催化剂载体
	JA35-40/1	33-37(DLS)	39.0-40.5	9.5-10.5	12	高光相纸，吸墨性好
酸性硅溶胶 Acidic	SW15-20/1	13-15(BET)	19.0-21.0	2.0-2.4	6	酸性涂料/有机涂料
	SW15-25/1	13-15(BET)	24.0-26.0	2.0-2.4	6	酸性涂料/有机涂料
	SW80-30/1	75-85(BET)	29.0-31.0	2.0-2.4	6	有机涂料
	SW80-40/1	75-85(BET)	39.0-41.0	2.0-2.4	6	有机涂料
高纯硅溶胶 High purity	JK20-30	18-22(DLS)	29-31			IC CMP
	JK40-30	38-42(DLS)	29-31			
	JK50-40	48-52(DLS)	39-41			
	JK60-40	58-62(DLS)	39-41			
	JK70-40	68-72(DLS)	39-41			
	JK80-40	78-82(DLS)	39-41			
	JK100-40	98-105(DLS)	39-41			
	JK120-40	115-125(DLS)	39-41			
改性硅溶胶 Modified		铝改性硅溶胶，粒径、浓度、纯度根据顾客需要 AL modified silica with customer required size,loading and purity				IC CMP、纤维膜
		有机改性硅溶胶，粒径、浓度、纯度、溶液根据顾客需要 Organic modified silica with customer required size,loading , purityand purity				IC CMP、柔软剂

产品特色 Product Characteristics

◆ **颗粒粒径控制**

可控制硅溶胶粒径，从几纳米至几百纳米、且呈单分布状态

◆ **Particle size control**

Particle size of colloidal silica can be controlled from several nanometers to over hundred nanometers with monodispersed distribution.

◆ **纯度控制**

可将硅溶胶杂质金属元素含量控制在几十个ppb以内

◆ **Purity control**

Metal impurities of colloidal silica can be controlled within dozens of ppbs.

◆ **硬度控制**

可控制颗粒真密度2.20-2.23g/cm^3，从而提供不同硬度的硅溶胶颗粒

◆ **Hardness control**

True density of colloidal silicas can be controlled from 2.20 to 2.2 g/cm^3, hence supplying colloidal silica particles with different hardness.

◆ **形貌及聚合态**

利用生长控制、颗粒连接与包裹等技术，实现颗粒球形、非球形生长及呈现单分散、多聚合状态

◆ **Morphology and aggregation**

By production control, particle bridging and coating technologies, particles with spherical and non-spherical shapes, monodispersed and polydispersed distributions can be obtained.

◆ **表面改性**

对胶体颗粒表面有机改性，使颗粒可稳定存在于不同溶剂（水及有机溶剂）、不同酸碱环境（酸性、碱性及中性）

◆ **Surface modification**

By organic modification of colloidal silica, particles can be stable in different solvents (aqueous and organic solvents) and different pH environments (acidic, alkaline and neutral environments).

◆ **节能降耗**

具有节能降耗技术，使得制造过程中消耗更少的热能与水资源

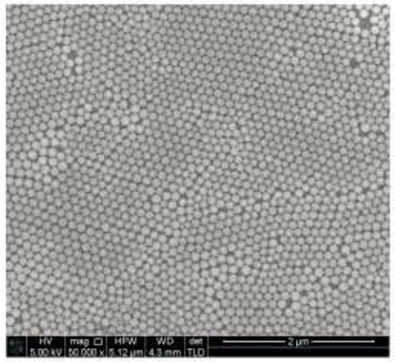
◆ **Energy saving and consumption reducing**

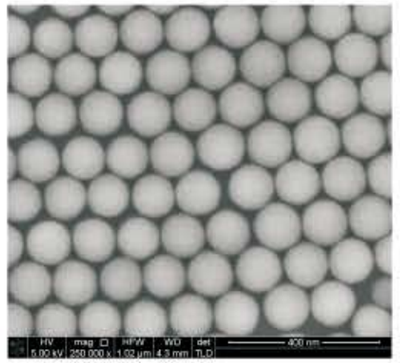
By adopting energy saving and consumption technologies, less thermal energy and water resources are consummated during manufacturing process.

◆ 微观分析

◆ **Micro Analysis**

二氧化硅纳米颗粒SEM图片
SEM image of colloidal silica nano particle





小粒径二氧化硅纳米颗粒DLS分析图
DLS result of colloidal silica nano particle with small particle size