

日化生产装备

Daily Chemical Production Equipment

提供洗衣粉生产线、液体洗涤剂生产线、固体泡花碱和液体泡花碱生产线的成套设计、设备制造、安装及调试、培训。配套提供产品配方和原料。

Supply complete sets of design, equipment manufacturing, installation, commissioning and training for the detergent powder production line, liquid detergent production line, solid sodium silicate and liquid sodium silicate production line. Supply product formula and raw materials.



浙江美宝工业科技股份有限公司

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浙江美宝



浙江美宝工业科技股份有限公司
ZHEJIANG MEIBAO INDUSTRIAL TECHNOLOGY CO., LTD.



Zhejiang Meibao Industrial Technology Co., Ltd. (Originally Hangzhou Meibao Furnace Engineering Co., Ltd.), is a technology professional company specializing in overall factory planning, process design, equipment manufacturing, installation, commissioning service and training for the complete sets of daily chemical production line, complete sets of drying production line, industrial furnace, environmental protection equipment and so on. There are almost 200 professionals in R&D, design, manufacturing, installation and after-sales in our company. We have the modern manufacturing factory and our company is a "National Hi-tech Enterprise" and "Specialized and New Enterprise", is the member of CCA Professional Committee of Technical Equipment, have the license of import-export. Our company has a perfect R&D system, QC

浙江美宝工业科技股份有限公司 Zhejiang Meibao Industrial Technology Co., Ltd.

About us | 关于我们

浙江美宝工业科技股份有限公司(原杭州美宝炉窑工程有限公司),是一家集日化成套生产线、干燥成套生产线、工业炉窑及环保装备等整体工厂规划、工艺设计、设备制造、安装、调试、服务、培训为一体的科技型专业公司,公司现有研发、设计、制造、安装、售后等专业技术人员约200名,拥有现代化的生产制造工厂。属国家“高新技术企业”、“专精特新企业”,是中国洗协技术装备专业委员会成员,拥有进出口业务自主权。公司拥有完善的产品研发体系、质量管理体系及专业的工程施工队伍,通过了ISO9001质量管理体系和ISO14001环境管理体系认证,公司多项技术和设备已申请国家发明和实用新型专利。

公司可提供洗衣粉、液体洗涤剂、泡花碱成套生产线的整体工厂规划、设计、制造、安装、调试和培训,工艺配置从简单人工操作到中央计算机集中自动化控制,承接技术咨询和老线改造工程技术服务。公司已为国内外多家公司成功设计配套了洗衣粉、液体洗涤剂、湿法泡花碱、固体泡花碱等成套生产线。同时公司可根据用户需要提供各种适应市场的产品配方,配套提供产品生产所需的原料。

公司可提供干燥成套线的整体工厂规划、设计、制造、安装、调试和培训,如氯化钙成套生产线、聚合铝生产线、石英砂干燥生产线、饲料干燥线、化肥干燥线等。

公司工业炉窑方面,主要设计制造多种专用工业炉窑,包括直接式热风炉、换热式热风炉、生物质热风炉、燃油燃气热风炉、蓄热室废气燃烧炉等,并已成功应用于化工、化肥、饲料、建材、医药、食品、冶金等产品的生产线。

公司产品已被联合利华、P&G、印尼PT Wings Surya、印度Shivani Detergents Pvt Ltd、巴基斯坦 Ittehad Chemicals Ltd、新加坡国际胶业公司、纳爱斯集团、广州立白集团、青海盐湖元通钾肥公司、中阿化肥有限公司、中化开磷集团、国投新疆罗布泊钾盐有限责任公司、中石化南京工程公司、青海中信国安科技有限公司、云天化集团、多氟多股份公司、燕京啤酒集团等众多知名厂家的生产线上使用,并远销越南、印度、老挝、缅甸、印尼、巴基斯坦、泰国、坦桑尼亚、加纳、牙买加、赞比亚、多米尼加、安哥拉等国家。

公司秉承“以人为本、科技创新、尊重自然、合理利用、持续发展、造福社会”的经营理念,永远为国内外客户提供先进的技术,一流的产品,优质的服务。我们始终坚持以带给客户更多利益和保障的同时也为我国资源的可持续发展和人类生活的改善贡献自己的一份力量。

system and professional constructing team. We have obtained ISO9001 quality management system and ISO14001 environmental management system certifications. A number of technology and equipment has applied for national invention and practical patent.

We can provide overall factory planning, design, manufacturing, installation, commissioning and training for the complete sets of detergent powder production line, liquid detergent production line and sodium silicate production line. Process configuration ranges from simple manual operation to centralized automation control by central computer. We also provide technical consultation and reconstruction services of old lines, and have successfully designed and supported such production line as detergent powder, liquid detergent, liquid sodium silicate and solid sodium silicate for many companies at home and abroad. At the same time, our company can provide a variety of product formulas and raw materials that adapt to the market according to user needs.

Our company can provide overall factory planning, design, manufacturing, installation, commissioning and training of complete sets of drying production line, such as calcium chloride complete production line, polyaluminum chloride production line, quartz sand drying production line, feed drying line, fertilizer drying line, etc.

For the energy equipment, we mainly design and manufacture a variety of special industrial furnaces, including direct hot air furnace, indirect hot air furnace, biomass fired hot air furnace, oil/gas hot air furnace, regenerative exhaust gas furnace, etc. Our hot air furnaces have been widely used in chemical, fertilizer, feed, building materials, medicine, food, metallurgy and other production lines.

Our products have been used in the production lines of many well-known manufacturers such as Unilever, P&G, Indonesia PT Wings Surya, India Shivani Detergents Pvt Ltd, Pakistan Ittehad Chemicals Ltd, Singapore International Rubber Industry Co., Ltd, Nice Group, Guangzhou Liby Group, Qinghai Yanhu Yuantong Potassic Fertilizer Co., Ltd, Sino-Arab Chemical Fertilizers Co., Ltd., Sinochem Kailin Group, SDIC Xinjiang Luobupo Hoevellite Co., Ltd., Sinopec Nanjing Engineering & Construction Incorporation, Qinghai CITIC Group, Yuntianhua Group, Do-Fluoride Chemicals Co., Ltd, Yanjing Beer Group, etc. And we exported to Vietnam, India, Laos, Myanmar, Indonesia, Pakistan, Thailand, Tanzania, Ghana, Jamaica, Zambia, Dominica, Angola and other countries.

Adhering to the business philosophy of "people-oriented, scientific and technological innovation, respect for nature, rational utilization and sustainable development, benefit the society", we always provide customers at home and abroad advanced technology, first-class products and perfect service. We insist on that when we give customer the benefit and assurance, we also contribute to the continuous development of energy in china and improvement of people's life.

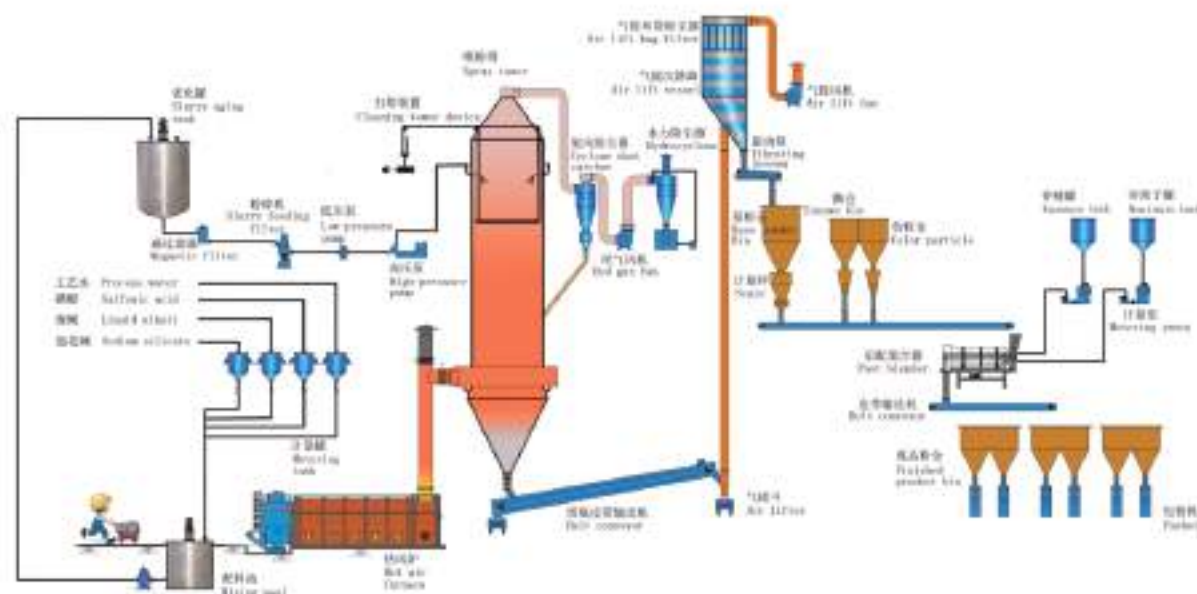
Office and Factory of Our Company 公司办公室及制造工厂



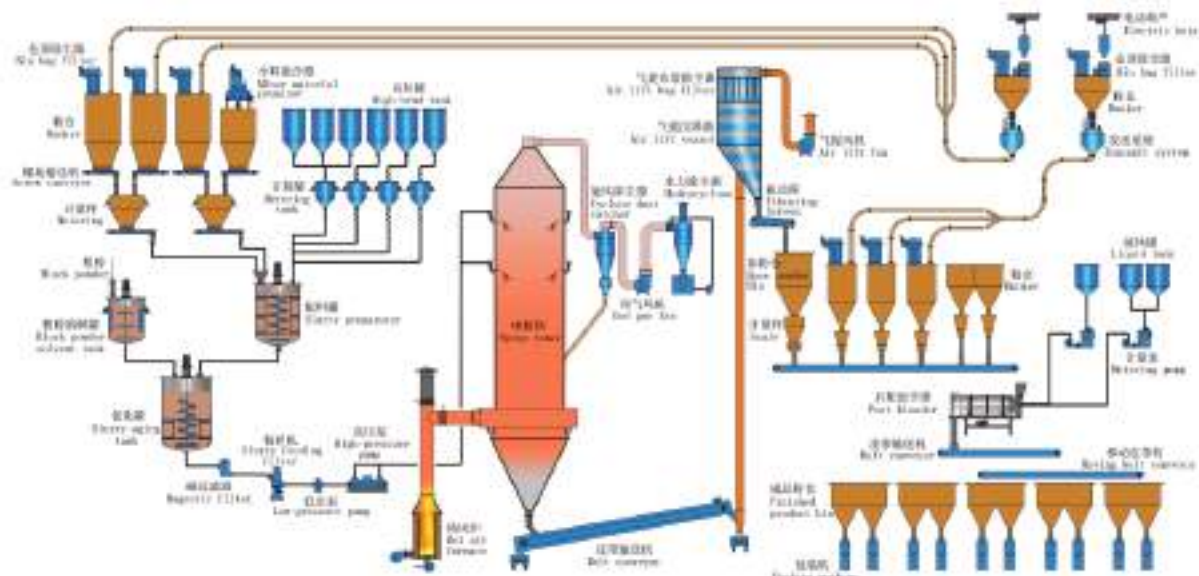
Detergent Powder Production Line Process

洗衣粉生产线工艺

洗衣粉生产工艺流程 (一)
Detergent Powder Production Process (A)



洗衣粉生产工艺流程 (二)
Detergent Powder Production Process (B)



工艺采用“高塔喷雾—团聚法”生产装置，年产量5000~250000吨。产品的视比重0.25~0.50g/cm³。

The process and device use "tower spray—agglomeration method", annual output 5000~250000 tons. Apparent specific gravity of product 0.25~0.50g/cm³.

工艺简介: 将各种粉体原料、液体原料分别按配方经过称量，送入配料罐制成料浆，经老化系统水合老化、粉碎过滤后，由高压泵送往喷粉塔塔顶，经喷枪形成雾状颗粒，与热风炉提供的热烟气相遇被干燥，在塔底形成洗衣粉空心颗粒，再经风提、老化，制得洗衣粉基粉。基粉经过筛分，并根据需求加入其余的原料（如：酶、色粒、香精、非离子等），一起送入后配混合器进行混合、造粒，制得优质的中、高档洗衣粉成品，最后进行包装。

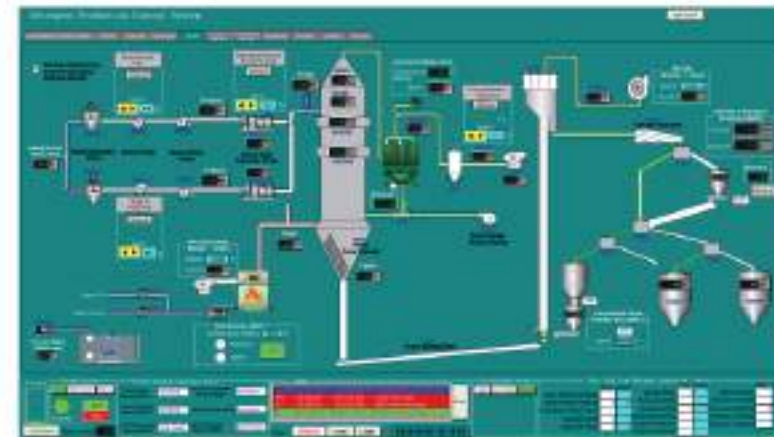
Process introduction: all kinds of powder materials and liquid materials are weighed respectively according to the formula, sent to slurry preparator to make slurry, after hydrated aging, crushing and filtering by aging system, sent to the top of spray tower by high pressure pump, formed into misty particles through spray nozzles, dried by hot air generated by hot air furnace. Hollow particles of detergent powder are formed at the bottom of the tower. Then by air lifting and aging, base powder is made. After screening, the base powder is added with other raw materials (such as enzymes, color particles, essence, nonionic, etc.) as required, and then sent to a post blending mixer for mixing and granulation, so as to prepare middle and high-grade detergent powder products, and finally packaged.

工艺技术特点:

- 整个生产系统废气达标排放，无污水排放；
 - 干燥后的尾气采用一级旋风除尘和二级水力除尘，节能降耗的同时，尾气排放达标；
 - 除尘下来的细粉完全回塔，提高基粉的得率；设置完善的车间环境除尘系统，保证了车间环境的清洁；
 - 控制系统可以采用简单的人工操作或中央计算机集成自动化控制。
- Technology characteristics:**
- Emissions of waste gas of whole production system reach standards, no sewage discharge.
 - The dried tail gas adopts primary cyclone dust removal and secondary hydraulic dust removal, which can save energy, and the tail gas emission reaches the standard.
 - Fine powder is completely back to tower, improve yield of base powder. Workshop environment is provided with perfect dedusting system, ensure the workshop environment clean.
 - Control system can adopt simple manual operation or central computer integrated automatically control.

The Pictures of Detergent Powder Production Equipment

洗衣粉生产线装备图片



Liquid Detergent Production Line Process

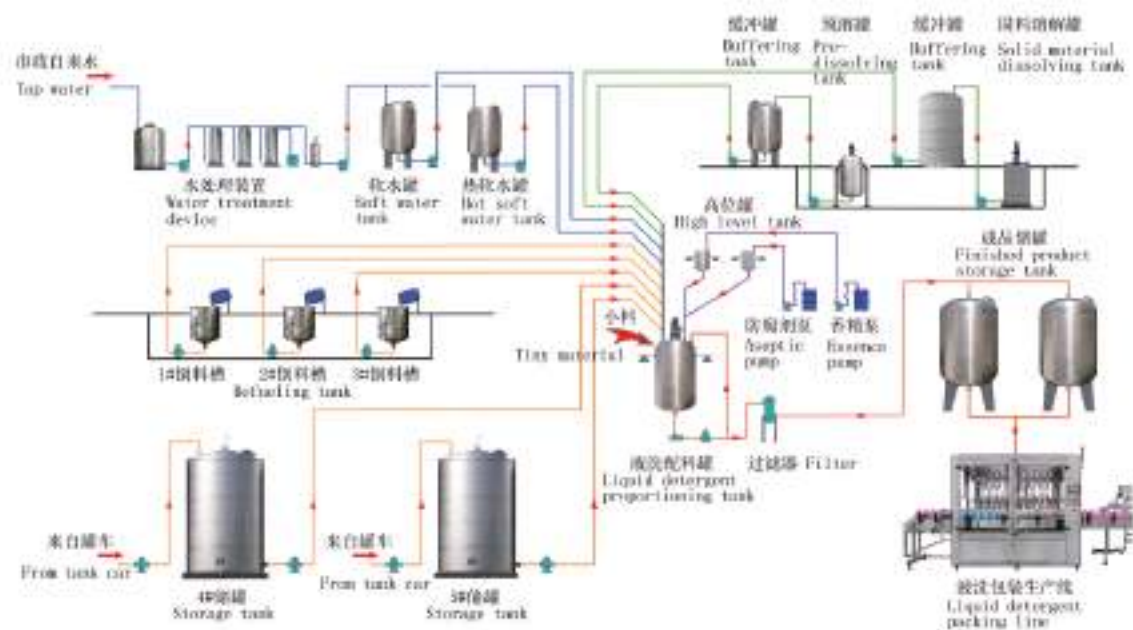
液体洗涤剂生产线工艺

液体洗涤剂生产线可用于生产洗洁精、洗衣液、洗发液、沐浴露、洁厕液、设备清洗剂等民用及工业用液体洗涤剂。一般采用间歇式的生产方式，具有技术成熟、运行稳定可靠、可扩展性强、节能环保等优点。控制上可采用手动操作、半自动操作、中央计算机集中控制等方式。可根据客户需求提供 > 5000吨/年液体合成洗涤剂成套生产线的咨询、设计、供货、安装、调试培训等服务。

The liquid detergent production line can be used to produce liquid detergent for civil and industrial, such as dishwashing liquid, laundry detergent, shampoo, shower gel, toilet liquid, equipment cleaning agent, etc. Generally, intermittent production is adopted, which has the advantages of mature technology, stable and reliable operation, strong expansibility, energy saving and environmental protection. Manual operation, semi-automatic operation and centralized control by central computer can be used for control. We can provide consultation, design, supply, installation, commissioning and training and other services of complete sets of liquid detergent production line with over 5000 tons/year according to customer demand.

工艺简介: 各种物料经计量后按照工艺顺序依次投入配料罐内，物料在配料罐内经搅拌混合，充分反应后制得液体洗涤剂的半成品。然后将半成品打入静置罐内，物料在静置罐内冷却、沉降，消去物料里面的气泡，得到品相稳定的成品。成品在灌装线进行包装，包装好的成品经封箱码垛，送至成品库入库。

Process introduction: all kinds of materials are measured and put into the proportioning tank in order according to the process sequence. The semi-finished liquid detergent is prepared by mixing, stirring and fully reacting in the proportioning tank. Then the semi-finished product is pumped into the static tank, and the material is cooled and settled in the static tank to eliminate bubbles in the material, so as to obtain a finished product with stable quality. The finished product is packed in the filling line. The packaged finished products are sealed and palletized, and sent to the finished product warehouse for storage.



The Pictures of Liquid Detergent Production Equipment

液体洗涤剂生产装备图片



Solid Sodium Silicate Production Line Process

固体泡花碱生产线工艺

固体泡花碱生产主要原料为纯碱和石英砂。工艺过程为配料、烧制和成型。主要设备由配料系统、上料系统、炉窑（熔池、蓄热室、烟道、烟囱）、燃烧系统、成型链板机和控制系统。我公司可根据用户需要提供单台日产量10~160吨、模数2.0~3.5的固体泡花碱生产线的工艺设计、设备制造、安装、调试和培训。

The main raw materials for the production of solid sodium silicate are soda ash and quartz sand. The process is batching, burning and forming. Main equipment: batching system, feeding system, furnace (molten pool, regenerator, flue, chimney), combustion system, chain plate forming machine and control system. Our company can provide the process design, equipment manufacturing, installation, commissioning and training of solid sodium silicate production line with a daily output of 10~160 tons and a modulus of 2.0~3.5 according to customer demand.

工艺简介:

1. 配料: 可分人工称量配料和自动称量配料。人工称量配料主要将石英砂、纯碱按配方比例称量好, 再用提升机投入炉内反应。自动称量配料是将纯碱、石英砂等物料通过自动计量装置称量好, 称好的物料通过输送装置自动投入炉内反应。

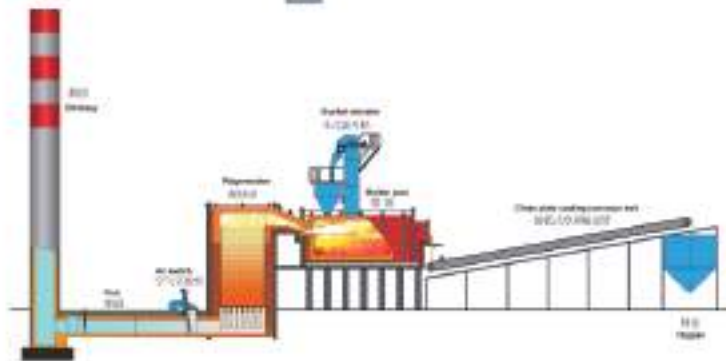
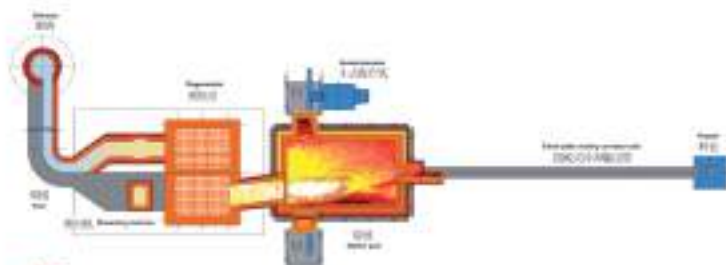
2. 烧制: 物料投入炉内后在1350-1450°C高温下发生化学反应, 熔融状硅酸钠经风冷或水冷后形成玻璃状固体颗粒泡花碱。炉窑设计采用蓄热式预热器, 尾部1200°C出炉烟气可将空气及煤气分别预热至1100°C和900°C, 排烟温度降至180°C以下。以达节能降耗。

Process introduction:

1. Batching: can be divided into manual batching and automatic batching. Manual batching is manually weighing the quartz sand and soda ash according to the proportion of the formula, then put them into the furnace for reaction through the lifter. Automatic batching is automatically weighing the quartz sand and soda ash, then the weighed materials are automatically put into the furnace for reaction through the conveying device.

2. Burning: after the materials are put into the furnace, the chemical reaction is occurred at the high temperature of

1350-1450°C, molten sodium silicate by air cooling or water cooling formed into glassy sodium silicate solid particles. The furnace is designed with a regenerative preheater. The flue gas discharged from the tail at 1200°C can preheat the air and coal gas to 1100°C and 900°C respectively, and the exhaust temperature can be reduced to below 180°C. So as to save energy and reduce consumption.



The Pictures of The Solid Sodium Silicate Production Equipment

固体泡花碱生产装备图片



Liquid Sodium Silicate Production Line Process

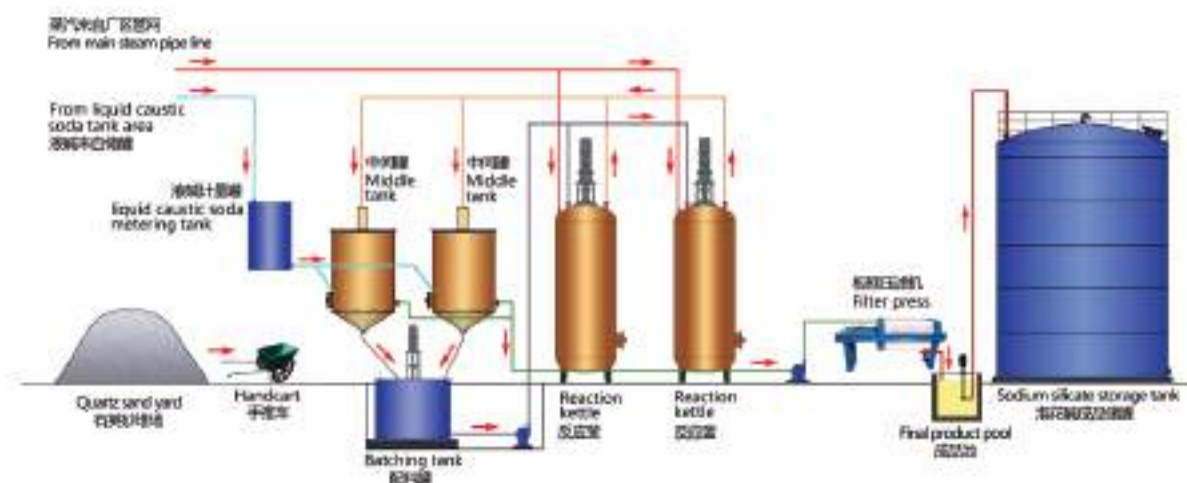
液体泡花碱生产线工艺

液体泡花碱生产是将液碱与石英砂在高温高压下反应得到泡花碱的一种生产方式，这种生产方式具有投资省、流程简洁、易操作、环保经济、无废水废气产生等显著优点。适宜生产模数在2.5以下的泡花碱产品。我们可根据客户需求提供 > 5000吨/年湿法泡花碱成套生产线的咨询、设计、供货、安装、调试培训等服务。

The wet production of sodium silicate is a production method of reaction of liquid caustic soda and quartz sand at high temperature and pressure to get the sodium silicate. This mode of production has significant advantages as follows: the investment is low, the process is simple and easy to operate, environmental protection and economy, no waste gas production, etc. The production line can produce sodium silicate products with modulus below 2.5. We can provide consultation, design, supply, installation, commissioning and training and other services of complete sets of wet process sodium silicate production line with over 5000 tons/year according to customer demand.

工艺简介: 将石英砂和液碱在配料罐内混合均匀，通过泵将料浆送入反应釜内，充入蒸汽，物料在高温高压下反应后得到泡花碱溶液。泡花碱溶液通过压滤机过滤，得到澄清的液体成品，然后用泵打入成品罐即可入库。

Process introduction: The quartz sand and liquid caustic soda are evenly mixed in the batching tank. Then the slurry is sent to reaction kettle by the pump, and steam is introduced, the materials react at high temperature and high pressure to obtain a sodium silicate solution. The sodium silicate solution is filtered by the filter press to obtain a clear liquid finished product, and then pumped into the finished product tank and put it into storage.



The Pictures of Liquid Sodium Silicate Production Equipment

液体泡花碱生产装备图片



Detergent Powder Post-blending Production Process

洗衣粉后配料生产线工艺

本工艺为洗衣粉后配生产工艺，其原料为：洗衣粉基粉、酶、色粒、香精、非离子等。生产出的洗衣粉密度为0.35~0.50T/m³。

This technology is detergent powder post-blending process. Its raw materials are detergent base powder, enzyme, color granule, perfume, non-ionic, etc. The density of detergent powder is 0.35-0.50T/m³.

工艺简介:

1. 将洗衣粉基粉倒入上料机料斗后自动送入混合器，香精料由泵打入混合器内部的压力雾化喷嘴雾化，此时物料在混合器内抄板的带动下形成粉帘，与雾化后的香精液充分接触，吸附并混合。混合器转速可无极调节，达到较好的混合效果。混合后出来的洗衣粉经分筛机分筛后通过成品提升机送到成品粉仓。

2. 成品仓下设包装机，自动称量，称量规格可根据需要设定，人工放袋，台秤复检重量，热合封口，检测封口质量，装箱、打包、码垛，送入库房。

Process introduction:

1. Pour the base powder into the hopper of the feeder and then automatically feed it into the mixer. The perfume is atomized by the pressure atomizing nozzle inside the mixer. At this time, the material is carried by the sheet in the mixer to form a powder curtain, and it is fully contacted, adsorbed and mixed with the atomized perfume. The mixer speed can be adjusted to achieve a better mixing effect. After mixing, the detergent powder is screened by sieving machine and sent to the finished product silo through the lifter.

2. The finished product silo is equipped with packing machines, which can automatically weigh, and the weighing specifications can be set according to needs. The bag is placed manually, the weight can be rechecked by a platform scale, then heat sealing, inspect sealing quality, pack, stack and send to the warehouse.



The Pictures of The Detergent Powder Post-blending Production Equipment

洗衣粉后配料装备图片



Supply Formula and Raw Materials

配套提供配方和原料

公司可根据用户需要免费提供洗衣粉和液体洗涤剂配方。
We can provide the formula of detergent powder and liquid detergent for free according to customers' request.

公司拥有长久可靠的洗衣粉和洗衣液生产所需的原料工厂，可提供质量可靠的三聚磷酸钠、纯碱、沸石、泡花碱、元明粉、磺酸等生产原料。
Our company has a long-term and reliable cooperation with different raw materials factories for detergent powder and liquid detergent production. Supply high quality raw materials of STPP, soda ash, zeolite, sodium silicate, sodium sulfate anhydrous, LABSA, etc.



三聚磷酸钠(STPP)



纯碱 (Soda Ash)



泡花碱(Sodium Silicate)



沸石 (Zeolite)



元明粉 (Anhydrous Sodium Sulfate)



片碱(Caustic Soda Flakes)

Loading in the factory

工厂发货



Design and Construction

设计及施工安装



Design and Construction 设计及施工安装



Our Customers 我们的用户

Unilever Limited
Red Sea Detergent Co, Ltd.
PT. Wings Surya
Hadayat Detergent & Chemicals (Pvt) Ltd
Shivani Detergents Pvt Ltd
Shreeji Chemicals Ltd.
Suchel TBV S.A.

纳爱斯集团

广州立白集团

南风集团

广州浪奇日用品有限公司

特丝丽化工有限公司

传化集团

立顿洗涤剂用品实业有限公司

山东晶华日化有限公司

河北庄兰日化科技有限公司

杭州妙洁日化科技有限公司

山东雪原昌盛洗涤制品有限公司

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