



九天化工集团有限公司

JIUTIAN CHEMICAL GROUP LIMITED

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FINANCIAL HIGHLIGHTS

财务摘要

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Summarized Breakdown 摘要	FY2016 RMB'000	FY2015 RMB'000	Increase增/ (Decrease减) %
Revenue 收入	708,512	677,982	4.5 ↑
Gross profit 毛利润	39,435	14,096	179.8 ↑
Profit/ (loss) before tax 税前利润/ (亏损)	261	(9,209)	n.m ↑
Profit/(loss) and total comprehensive income for the year 本年度的利润/ (亏损) 和综合收益	359	(8,431)	n.m ↑

CONSOLIDATED STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME

	1Q2016 RMB'000	2Q2016 RMB'000	3Q2016 RMB'000	4Q2016 RMB'000	FY2016 RMB'000
Revenue 收入	149,220	164,123	145,180	249,989	708,512
Cost of sales 销售成本	(138,318)	(151,209)	(136,429)	(243,121)	(669,077)
Gross profit 毛利润	10,902	12,914	8,751	6,868	39,435
Other income 其他收益	1,069	1,407	1,454	5,576	9,506
Distribution costs 销售费用	(2,086)	(4,340)	(4,362)	(6,085)	(16,873)
Administrative expenses 管理费用	(5,882)	(6,800)	(5,892)	(6,050)	(24,624)
Other expenses 其他费用	(480)	(86)	(41)	56	(551)
Finance costs 财务费用	(1,338)	(1,488)	(1,091)	(1,579)	(5,496)
Share of results of associated companies 分享联营公司	(917)	2,983	1,684	(4,886)	(1,136)
Profit/ (loss) before tax 税前利润/(亏损)	1,268	4,590	503	(6,100)	261
Tax credit 税务收益	-	-	-	98	98
Profit/(loss) and total comprehensive income 利润/(亏损)和综合收益	1,268	4,590	503	(6,002)	359

UPDATE ON NEW PROJECTS

新项目进度更新

PROJECT SODIUM HYDROSULFITE 保险粉项目



PROJECT SODIUM HYDROSULFITE 保险粉项目

The Project is located at Anyang City, Henan Province, PRC. The main production facilities are as follows:

- 45,000 tons of sodium formate (HCOONa);
- 45,000 tons of sodium matabisulfite ($\text{Na}_2\text{S}_2\text{O}_5$);
- 45,000 tons of liquid sulphur dioxide (SO_2); and
- 140,000 tons of sodium hydrosulfite ($\text{Na}_2\text{S}_2\text{O}_4$).

Project milestones

- Apr 2013 - commenced construction work
- Apr 2015 – key production facilities substantially completed, obtained trial safety production certificate and trial production commenced
- Dec 2016 – obtained environmental permit from the Department of Environmental Protection
- Apr 2017- commenced commercial production for the main feedstocks of sodium hydrosulfite (liquid sulphur dioxide and sodium matabisulfite)
- Currently the Project is waiting for the approval of the permanent safety production permit required for sodium hydrosulfite, barring any unforeseen circumstances, commercial production for Sodium Hydrosulfite can be started in 2HFY2017.

保险粉项目坐落于河南省安阳市，主要生产装置为：

- 45,000 吨甲酸钠(HCOONa);
- 45,000 吨焦亚硫酸钠 ($\text{Na}_2\text{S}_2\text{O}_5$);
- 45,000 吨液体二氧化硫 (SO_2); 和
- 140,000 吨 保险粉($\text{Na}_2\text{S}_2\text{O}_4$).

项目进度

2013年4月份开始建设
2015年4月主要生产装置基本上完工并取得安全试生产许可证投入试生产
2016年12月取得排污许可证
2017年4月二氧化硫与焦亚硫酸钠装置开始实现商业化生产
现阶段正在办理生产保险粉有关的安全生产许可证，在没有其他可预见的情况上，保险粉将在2017年下半年投入商业化生产。

PROJECT SODIUM HYDROSULFITE 保险粉项目

Sodium hydrosulfite is a white crystalline powder with a weak sulfurous odor. Its low toxicity makes it suitable for a wide variety of uses. These include water treatment, gas purification, cleaning, stripping, and the industrial processing of textiles, leather, foods, polymers, photography and others.



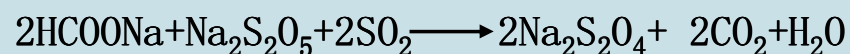
(一) 保险粉 (化学名叫连二亚硫酸钠, 现实中人们大多数都叫它“保险粉”, 保险粉的分子式是 $\text{Na}_2\text{S}_2\text{O}_4$, 它的外观为白色结晶的粉末状。用途:

- 1、纺织行业用作还原染料 (包括靛兰) 染色的还原剂、还原性漂毛剂、染色物的剥色剂及染缸的染洗剂、还原染料印花助剂、丝绸的精练与漂白剂等。
- 2、纸浆造纸业用作机械浆、热磨机械浆及脱墨浆的漂白剂。
- 3、食品行业用作食糖、糖果、蜜饯、饴糖、饼干、粉丝等的漂白剂和食品保鲜剂。
- 4、作为还原漂白剂广泛用于高岭土的漂白; 毛皮的漂白和还原增白; 竹制品和草编制品的漂白。
- 5、化学工业中也在广泛的应用, 主要用作还原剂

PROJECT SODIUM HYDROSULFITE 保险粉项目

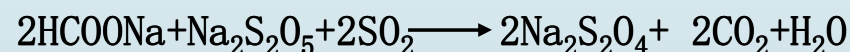
We are using sodium formate method to produce sodium hydrosulfite, by using sodium formate, sodium metabisulfite and sulfur dioxide as raw material, and with about 80% of the methanol water solution as the dispersion dielectric, the synthesis reaction in a sealed mixing container; the procedure including solid-liquid separation, methanol washing and vacuum drying. Most of the acidic mother liquor produced in the process is recycled, and a small part is sent to the by-product sodium sulfite production plant to produce sodium sulfite.

Chemical reaction equation :



保险粉的生产工艺为甲酸钠法，是以甲酸钠、焦亚硫酸钠和二氧化硫为原料，以80%左右的甲醇水溶液作为分散介质，在密闭的搅拌容器内进行合成反应，生成保险粉；再经固液分离、甲醇洗涤和真空干燥，生产出商品保险粉。过程产生的酸性母液大部分循环利用，小部分送副产品亚硫酸钠生产装置生产亚硫酸钠商品。

主要化学反应方程式：



PROJECT OXYGEN 18 AND DEUTERIUM DEPLETED WATER 氧18和低氘水项目



PROJECT OXYGEN 18 AND DEUTERIUM DEPLETED WATER 氧18和低氘水项目

The Project is located at Hebi City, Henan Province, PRC. The main production facilities are as follows:

140 kg of Oxygen 18

1,700 tons of deuterium depleted water

Project milestones

Dec 2014 - commenced construction work

Dec 2016– main production facilities substantially completed

Trial production is currently in progress and barring any unforeseen circumstances, the facilities are expected to commence commercial production at the end of FY2017.

氧18和低氘水项目坐落于河南省鹤壁市，主要生产装置为：

- 140公斤氧18
- 1,700吨低氘水

项目进度

2014年12月份开始建设

2016年12月主要生产装置基本上完工

现阶段正在进行试生产。在没有其他可预见的情况上，有关项目将在2017年底进行商业化生产。

PROJECT OXYGEN 18 AND DEUTERIUM DEPLETED WATER

Oxygen 18 is an environmentally isotopic natural, stable oxygen isotope. The application of oxygen 18 is divided into two categories: one is the use of isotopic external properties similar to the isotope can be replaced between each other without affecting the original material characteristics of the application, that is, "isotope tracer technology", such as applied to the object metabolism, drug synthesis steps Control; the other is as a nuclear medicine tracer widely used in nuclear medicine diagnostic technology.

DEUTERIUM DEPLETED WATER, also known more ambiguously as light water, is water which has a lower concentration of deuterium than occurs naturally. Studies have shown that water with a low deuterium concentration (<65% percent of volume) can inhibit cancer growth. As opposed to the wide range of anti-cancer drugs in current use associated with severe adverse effects, deuterium-depleted water appears to have virtually no pharmacological side effects and is convenient to administer.

氧18是一种环境同位素的天然，稳定的氧同位素。氧18的应用分两类：一类是利用同位素外部性质相近，同位素之间可以互相替代而不影响原来物质的特点的应用，即“同位素示踪技术”，如应用于物体代谢，药物合成步骤控制；另一类是作为核医学示踪剂广泛应用于核医学诊断技术领域。

低氘水，也称为轻水，氘浓度是比天然的水低的水。研究表明，具有低氘浓度（<65%）的水可以抑制癌症生长。与目前使用的与严重副作用相关的广泛范围的抗癌药物相反，缺乏氘的水似乎几乎没有药理学副作用。

THANK YOU
谢谢