



WEBSITE



WECHAT

WYLTON(CHINA) CHEMICAL CO.,LTD

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TO MAKE THE SULFURIC ACID PLANT SAFER, MORE ENVIRONMENT-FRIENDLY, AND MORE EFFICIENT.

COMPANY PROFILE

Wylton (China) Chemical Co., Ltd., a secondary enterprise of Wylton Group, was established in 2001 in Guizhou Province. It is a technical service-oriented enterprise that combines catalyst integration services, sulfuric acid technical services, sulfuric acid processing services, and trade services. It is also a vice-chairman member of the China Sulphuric Acid Industry Association. Wylton (China) and its subsidiaries have been successively rated as:

- “Benchmark Enterprise Leading in Energy Efficiency for Sulfur-based Acid Production”
- “Benchmark Enterprise Leading in Water Efficiency for Sulfur-based Acid Production”
- “National Level Little Giant SMEs。 ”
- “Provincial-level High-tech Enterprise”
- “Provincial-level Technology Center”
- “Provincial-level Industrial Design Center”
- “Engineering Research Center of Catalyst for oxidizing Sulfur Dioxide to produce Sulfuric Acid” , etc.

MAIN BUSINESS

- Catalyst Integration Services
- Sulfuric Acid Technical Services
- Sulfuric Acid Processing Services
- Trade Services



ORGANIZATION STRUCTURE

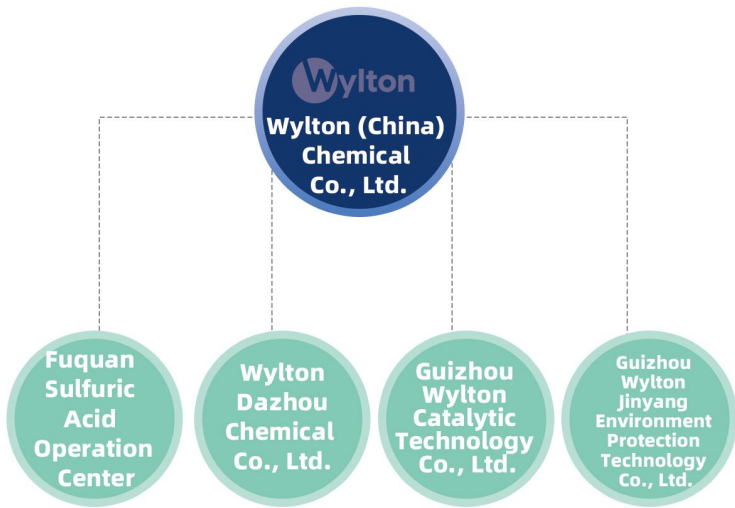


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Wylton (China) Milestones

Wylton (China) was established, and two 400 kt/a sulfur-based acid production plants were built.

Wylton (China) was Established

2001

2004

Guizhou Wylton Catalytic Technology Co., Ltd. was Established

In 2009, Wylton (China) acquired Guizhou South Great Wall Chemical Group Co., Ltd., which had over 40 years of catalyst production experience at the time, to establish Guizhou Wylton Catalytic Technology Co., Ltd. This was Wylton's first step into the industry of sulfuric acid catalyst R&D and manufacturing.

In 2009, to improve the sulfuric acid manufacturing capacity, Wylton Dazhou Chemical Co., Ltd. was established, which brought in another two sulfur-based acid production plants, one with a capacity of 400 kt/a and another with a capacity of 800 kt/a.

Wylton Dazhou Was Established

2009

In 2018, to fully use its resources and extend its services, Wylton (China) transformed its businesses from the existing manufacturing to technical services. In the same year, Guizhou Wylton Jinyang Environment Protection Technology Co., Ltd. was acquired, a waste catalyst disposal service.

Business Transformation
2018

2021
Little Giant

In November 2021, Wylton Catalytic Technology Co., Ltd. was awarded the title of "National High tech Enterprise", marking a new height in the company's catalyst research and development technology. In order to improve the comprehensive performance of our company's vanadium catalyst products, enhance product market competitiveness, and further narrow the gap between domestic and imported vanadium catalysts, we have deeply explored from multiple aspects and fully played the role of the high-tech enterprise platform.

CORPORATE CULTURE AND HONORS



Wherever and whenever you need sulfuric acid services, Wylton's Service Brand is the first to come to mind

Wylton is committed to providing the highest quality services and comprehensive solutions for global sulfuric acid enterprises, our vision is to build up a Service Brand that wherever and whenever you need sulfuric acid services, Wylton Service Brand is always in your mind.



Making sulfuric acid plants more safe, more environmentally-friendly and more efficient.

Focusing on the the whole chain of the sulfuric acid industry, Wylton (China) would like to grow with our customers to satisfy their higher demands.



Truth-seeking, responsibility-taking, progress-making and altruism-embracing

Truth-seeking: Seeking truth from facts, being honest and integrity, daring to criticize and self criticize.

Responsibility-taking: Being positive to take social responsibility, being good at planning and taking tasks, having the courage to make decisions, and daring to take the responsibility from mistakes.

Progress-making: Pioneering and innovating, being head-on to face difficulties and setbacks, keeping a spirit of hard work, keeping up with the times, and creating values.

Altruism-embracing: Giving is being given.



MAIN INTERNATIONAL CUSTOMERS

Business has covered multiple countries and regions around the world,
providing high-quality sulfuric acid comprehensive services to global sulfuric acid customers



MAIN CUSTOMERS IN CHINA

Established a long-term cooperation partnership with Guizhou Phosphate Chemical Group, Yuntianhua Group, Tongling Nonferrous Metals Group, Jinchuan Group, Yunnan Copper Group & Sinopec Nanjing Chemical Research Institute etc...300+ and achieved a leading position in the market share of sulfuric acid catalyst & catalyst screening services in China.



CATALYST INTEGRATION SERVICES



High-performance sulfuric acid catalyst manufacturing and customization of loading design.

- R&D and manufacturing more than 5,000 t/a of high-performance catalysts
- Continuously improving catalyst performance
- Successful implementation of sulphuric acid plants that produce more than 400 kt/a
- Personalization, customization, and design optimization of loading design



Catalyst Screening Service & Efficiently Automated Machine

- Screening capacity of 8-10m³/ h. Significantly shortens catalyst screening duration
- Low damage rate and low screening loss
- Work dust < 40mg/Nm³, environmentally-friendly and healthy



Health diagnosis of conversion process

- Accurate measurement of SO₂ concentration and evaluation of the operation status of conversion system
- Accurate judgement of the condition of equipment in conversion system
- Diagnosis of the problems existed in conversion system, and provision of optimization proposals and solutions

Advantages of catalysts



R&D

professional R&D team, complete R&D instruments, and superior simulation equipment of full-process industrial testing.



Products

Innovative catalyst production process, strict raw material quality control, and rigorous process control.



Full lifecycle

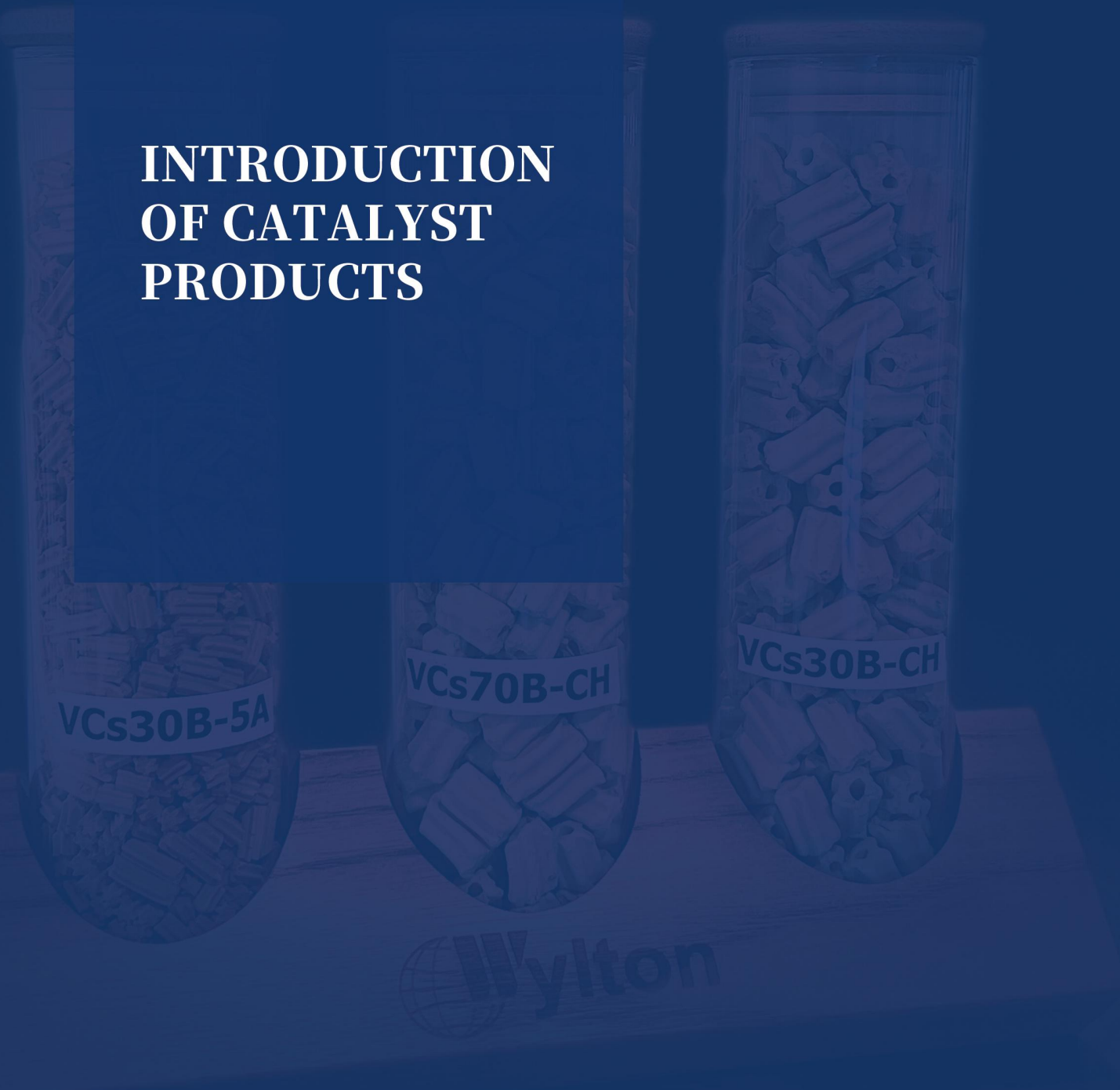
Integrated services for catalyst loading design optimization, catalyst R&D and production, automated screening machine, and spent catalyst disposal.



Services

Excellent technical service team, precise conversion process health diagnosis, rich production and management experience, and fast and thoughtful service processing.

INTRODUCTION OF CATALYST PRODUCTS



CHPB, VCsB Series

Series of CHBP and VCsB are the first domestically produced world-class catalysts with high activity for use in sulfuric acid production. Using imported high-quality diatomite as the carrier makes our catalyst have higher porosity, larger specific surface area, and broader range of pore size distribution. Wylton uses its research-driven advanced production process to ensure that the diatomite keeps its original structure, which makes the active components entering the pores maintain a uniform distribution. All of this makes the catalyst have a superior performance in their applications, such as longer service life (normally 5 to 15 years), lower screen loss (less than 5%), and more. Series of CHBP and VCsB products can be used in all kinds of sulfuric acid production to help you not only have a strictly lower SO₂ emission but to keep the unit running longer while maintaining stability.

CHPB and VCsB series

Excellent raw materials

All adopt imported high-quality carriers and high-purity active components.

Production process

The required production process for high-performance catalysts are guaranteed.

Characteristics

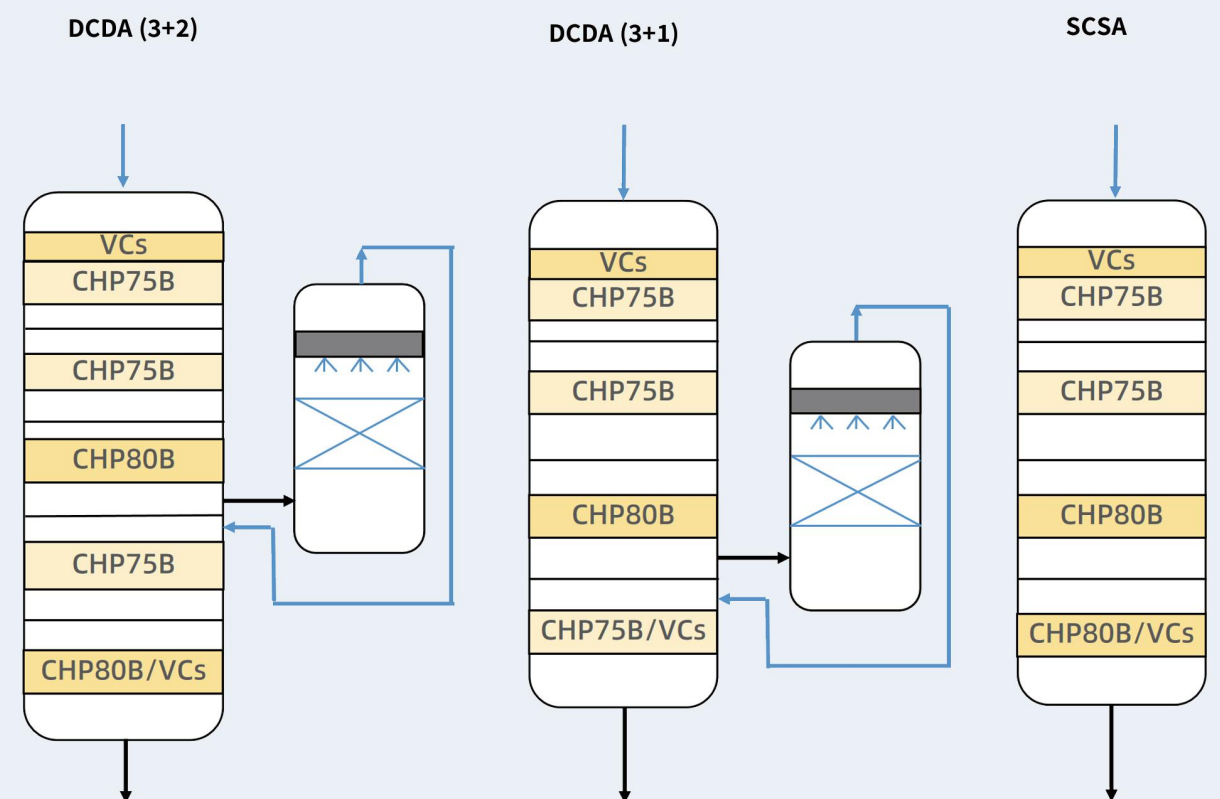
High utilization efficiency

The loading volume is small, about 60% of that of ordinary catalysts.
Long maintenance cycle.

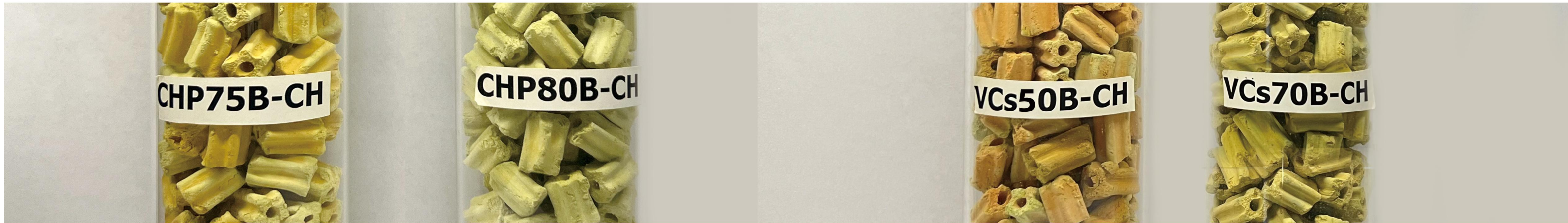
Long service life

Slow decline in activity.

USE POSITION



CHPB Series · Detailed Specifications



Model		CHP75B		CHP80B
Appearance (mm)	Shape	CH	AH	CH
	Diameter (O/I)	10. 0~12. 0/3. 0~4. 0		10. 0~12. 0/3. 0~4. 0
	Length	12. 0~17. 0		12. 0~17. 0
Activity (conversion rate of sulfur dioxide after heat resistance)/% ≥	410℃	/	/	/
	440℃	/	/	78
	485℃	89	89	/
Physical Properties	Color	■Yellow → ■Pale Green		
	Crushing Strength (N/cm)	≥40		≥40
	Attrition Loss (%)	≤5		
	Bulk Density (kg/L)	0. 39~0. 43	0. 45~0. 50	0. 39~0. 43
Chemical Composition (wt%)	V ₂ O ₅	≥7. 3		≥7. 7
Ignition Temperature	(℃)	370		380
Application		Suitable for acid production systems of various raw materials, scales, and processes, mainly used for the first and second stages of primary conversion and the first stage of secondary conversion. The operating temperature is 380~630 ℃, and the short-term maximum heat resistance temperature is 650 ℃.		Suitable for acid production systems of various raw materials, scales, and processes, mainly used for the second stage back bed of primary conversion and the first stage back bed of secondary conversion. The operating temperature is between 410 ℃ and 480 ℃, and the heat-resistant temperature is 630 ℃.
Packing		50L/Fiber Drum, 200L/Iron Drum (for exporting)		
Storage & Transportation		Keep away from moisture and rain. Handle with care. Do not roll.		
Note: “/” in the indicator indicates that this item is not included in the technical requirements of the catalyst model				

VCsB Series·Detailed Specifications

Model		VCs50B			VCs70B		
Appearance (mm)	Shape	CH	AH	A	CH	AH	A
	Diameter (O/I)	10.0~12.0/3.0~4.0		-	10.0~12.0/3.0~4.0		-
	Length	12.0~17.0 12.0~14.0	15.0~25.0	-	12.0~17.0 12.0~14.0	15.0~25.0	-
	Diameter x Length	-		5*15~25		-	
Activity (conversion rate of sulfur dioxide after heat resistance) /% ≥	390℃	30		25	32		26
	410℃	60		45	63		48
Physical Properties	Color	Yellow → Pale Green					
	Crushing Strength (N/cm)	≥40			≥40		
	Attrition Loss (%)						
	Bulk Density (kg/L)	0.44~0.47			0.44~0.47		
Chemical Composition (wt%)	V ₂ O ₅	≥6.3			≥6.3		
	Cs ₂ O	≤5<7			≥7		
Ignition Temperature	(℃)	350			340		
Application		Suitable for acid production systems of various raw materials, scales, and processes, mainly used for the upper part of the first stage of primary conversion, the final stage with lower operating temperature, and all beds of secondary conversion. The operating temperature is 370-480 ℃, and the heat-resistant temperature is 630 ℃.					
Packing		50L/Fiber Drum, 200L/Iron Drum (for exporting)					
Storage & Transportation		Keep away from moisture and rain. Handle with care. Do not roll.					
Note: "/" in the indicator indicates that this item is not included in the technical requirements of the catalyst model							

CATALYST INTEGRATION SERVICES

- TYPICAL CASES

Sulfur-based acid production

Yunnan Tian'an Chemical Co., Ltd.

The 800 kt/a sulfur-based acid production plant was originally filled with imported catalysts, and the total conversion rate was only about 99.45% under 2,470MTPD before maintenance in 2021. After screened and partially replaced with Wylton's CHP75B series catalysts, the total conversion rate reached about 99.84% under 2,544MTPD , exceeding the expected operation effect. The results before and after maintenance are compared as follows:

CONVERSION RATE BEFORE MAINTENANCE

Pass	Conversion of single pass (%)	Accumulated conversion rate (%)	1st Conversion (%)	2nd Conversion (%)
1st pass	54. 16	54. 16	93. 78	/
2nd pass	63. 14	83. 10		
3rd pass	61. 44	93. 49		
4th pass	91. 38	99. 44	/	91. 38
Outlet of final absorption tower	91.97	99. 48	/	91. 97

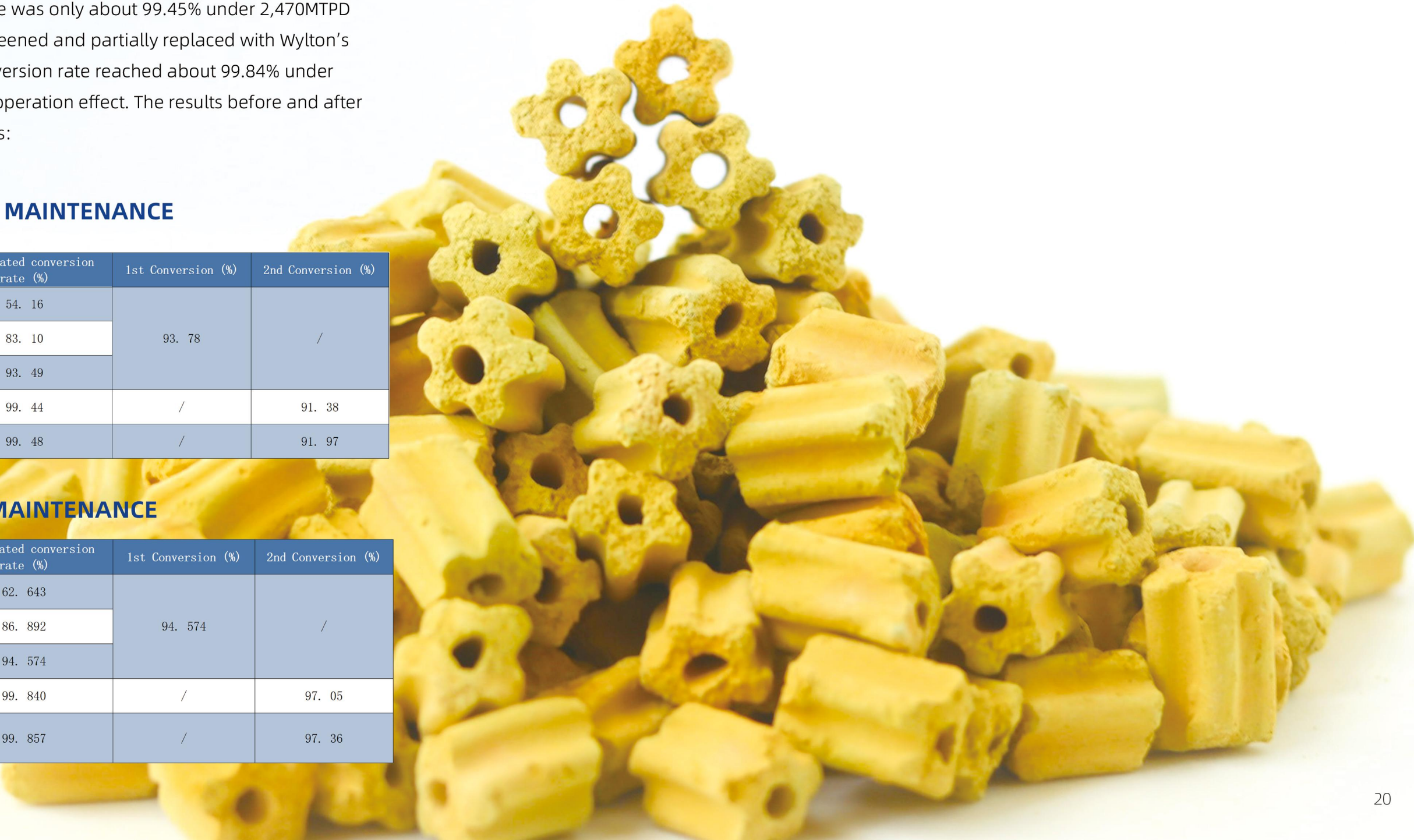
CONVERSION RATE AFTER MAINTENANCE

Pass	Conversion of single pass (%)	Accumulated conversion rate (%)	1st Conversion (%)	2nd Conversion (%)
1st pass	62. 643	62. 643	94. 574	/
2nd pass	64.91	86. 892		
3rd pass	58. 62	94. 574		
4th pass	97. 05	99. 840	/	97. 05
Outlet of final absorption tower	97. 36	99. 857	/	97. 36

Guangdong Huiyun Titanium Co., Ltd.

250kt/a sulfur-based acid production plant, effective inner diameter of converter: 8,200 mm, DCDA 3+2 process, designed conversion rate: 99.87%, gas conditions: SO₂ =9.5%, O₂ =11.3%, SO₃ =0.2%, N₂ =79%.

This plant was put into operation in October 2013, and the total conversion rate has remained above 99.9%. The end gas can reach the emission standard <400 mg/Nm' without any treatment of end gas under normal production conditions.



CATALYST INTEGRATION SERVICES

- TYPICAL CASES

Pyrite-based Acid Production

Jiangxi Kaixin Chemical Technology Co., Ltd.

The raw material of this sulfuric acid plant is pyrite, the designed capacity is 840 kt/a and the total conversion rate is 99.9%. This plant was put into operation in December 2021. The concentration of SO₂ detected at the inlet of 1st pass reached 10.4%, far higher than the designed conditions, but the total conversion rate can still reach 99.9%.

Location	SO ₂ (%)	O ₂ (%)	Accumulated conversion rate (%)
Inlet of Pass #1	10.36	8.65	/
Inlet of Pass #4	0.78	4.8	94.17
Outlet of final absorption tower	0.012	4.21	99.9

Pass	Catalyst model
1	CHP75B
2	CHP75B
3	CHP80B
4	CHP75B
5	CHP80B
Loading volume	210.0 (m ³)

Acid Production from Smelting End-gas

West Mining Group Qinghai Copper Co., Ltd.

With advanced equipment from overseas, Wylton's professional service team has done a comprehensive technical diagnosis of this company's sulfuric acid plant. Through an accurate analysis & determination, we confirmed that the heat exchanger #5 was leaking, and we immediately made a technical proposal including design optimization & catalyst replacement, and after a high-efficient screening service was done by Wylton, the production efficiency of this acid plant was quite obvious. The conversion rate was also higher than the level before maintenance, and the consumption of hydrogen peroxide has been greatly reduced to 0.5t/day, reducing the cost for environmental-protection, which benefits the customer.

Henan Lingbao SDIC Jincheng Metallurgy Co., Ltd.

This plant was put into operation in September 2018. The catalyst loading volume was designed under the maximum working conditions, and the designed total conversion rate reached 99.85%. Under this condition the capacity of sulfuric acid (100% H₂SO₄) is 2,200.80 MTPD.

During the two-year's quality warranty period, the conversion rate has remained steady at above 99.9%. The first maintenance of this plant was carried out in 2021 (screened & added catalysts in the pre-converter and the 1st pass of main converter), and even until now, the conversion decline and pressure drop rise are maintaining at a very slow level.

Pass	Catalyst model
Pre-converter	CHP75B
1	CHP75B
2	CHP75B
3	CHP80B
4	CHP80B
Loading volume	506.0 (m ³)

Location	Measurement	Parameters	Aug. 2019	Sep. 2020	Apr. 2021	Feb. 2023
Inlet of converter	Instrument on site	Air volume (Nm ³ /h)	136769	141565	156602	172964
	WynDOC	SO ₂ (%)	14.42	13.42	12.34	11.44
Outlet of final absorption tower	WynDOC	SO ₂ (ppm)	174	157	117	114
Total conversion rate (%)			99.9	99.91	99.92	99.92

MORE CASES

1 Wengfu (Group) Co., Ltd

ACID MAKING Sulfuric acid production
RAW MATERIALS from pyrite 400Kt/a X 2
SCALE PROCESS 2+2 process

FILLING METHOD Partial replacement of
imported catalysts

FILLING MODEL CHP75B

USAGE The conversion temperature of
each section is normal, and the
total conversion rate is better
than before maintenance under
design operating conditions. The
maintenance cycle has been
extended from one and a half
years to two years

3 Jiashili (Jingzhou) Fertilizer Co., Ltd

ACID MAKING Sulfuric acid production
RAW MATERIALS from pyrite 300Kt/a
SCALE PROCESS 3+2 process

FILLING METHOD Complete set filled with
IS series

FILLING MODEL IS101-CH、IS107-CH

USAGE Under the condition of reaching
110% load, the total conversion
rate remains at 99.85%, and the
catalyst maintenance cycle is one
and a half to two years

2 Jiashili (Yicheng) Fertilizer Co., Ltd

ACID MAKING Sulfuric acid production
RAW MATERIALS from pyrite 300Kt/a
SCALE PROCESS 3+2 process

FILLING METHOD Complete set filled with
IS series

FILLING MODEL IS101-CH、IS107-CH

USAGE Under the condition of reaching
120% load, the total conversion
rate remains above 99.8%

4 Guangdong Yunfu Yehua Chemical Co., Ltd

ACID MAKING Sulfuric acid production
RAW MATERIALS from pyrite 200Kt/a
SCALE PROCESS 3+2 process

FILLING METHOD Partially loaded CHP series

FILLING MODEL CHP75B、CHP80B

USAGE After supplementing and
replacing the CHP series, the
total conversion rate remained
at 99.85% for a long time

5 Zhejiang Jiangtong Fuye Heding Copper Industry Co., Ltd

ACID MAKING The maximum operating
RAW MATERIALS condition for copper smelting
SCALE PROCESS flue gas acid production is
550Kt/a
3+1 process

FILLING METHOD Package

FILLING MODEL CHP75B、CHP80B

USAGE Production started in July 2013, with
the first screening of the first stage in
2016, the first screening of the second
and third stages in 2018, and the first
screening of the fourth stage in 2020.
So far, a total of 120m of screening
has been 120m³ New catalysts for left
and right

7 Guotou Jincheng Metallurgical Co., Ltd

ACID MAKING The maximum operating
RAW MATERIALS condition for copper smelting flue
SCALE PROCESS gas acid production is 716Kt/a
Pre conversion+main conversion
(3+1)

FILLING METHOD Package

FILLING MODEL CHP75B、CHP80B

USAGE Started production in October
2018 and underwent initial
maintenance in 2021, with a
total conversion rate consistently
above 99.9%

9 Jilin Zijin Copper Industry Co., Ltd

ACID MAKING The maximum operating condition
RAW MATERIALS for copper smelting flue gas acid
SCALE PROCESS production is 650Kt/a
3+2 process

FILLING METHOD Alternative imports

FILLING MODEL CHP80B-CH

USAGE Produced in 2015, screened in
2018, 2021, and 2023,
respectively

11 Jinchuan Group Co., Ltd

ACID MAKING Nickel smelting flue gas sulfuric
RAW MATERIALS acid production 700Kt/a
SCALE PROCESS 3+1 process

FILLING METHOD Whole section, mixed

FILLING MODEL CHP75B、CHP80B、VCs50B

USAGE Started using in 2015 with
good results

6 Guizhou Phosphate Chemical Group Kai Phosphorus Fertilizer Co., Ltd

ACID MAKING Sulfur-based sulfuric acid
RAW MATERIALS production 800kt/a
SCALE PROCESS 3+1 process

FILLING METHOD The first, third, and fourth stages
are supplemented in equal
quantities to replace imports

FILLING MODEL CH75B、CHP80B、VCs

USAGE Good operating condition, highly
praised by customers

8 Chifeng Yuntong Nonferrous Metals Co., Ltd

ACID MAKING The maximum operating condition
RAW MATERIALS for copper smelting flue gas acid
SCALE PROCESS production is 850Kt/a
Pre conversion+main conversion
(3+1) process

FILLING METHOD Package

FILLING MODEL CHP75B、CHP80B、VCs70B

USAGE The first phase was put into operation in
May 2019, and the second phase was put
into operation in October 2019. The SO₂
content at the outlet of the second suction
tower is less than 200mg/Nm³

10 Qinghai Copper Industry Co., Ltd

ACID MAKING Copper smelting flue gas for acid
RAW MATERIALS production, 450Kt/a
SCALE PROCESS 3+2 process

FILLING METHOD Partial replacement of imported
catalysts

FILLING MODEL CHP75B、CHP80B

USAGE Starting from April 2022, the total
conversion rate exceeds the
design target

12 Jiangxi Copper Group and Jiangxi Jinde Lead Industry Co., Ltd

ACID MAKING Lead smelting 120Kt/a
RAW MATERIALS 3+2 process
SCALE PROCESS

FILLING METHOD Whole section, mixed

FILLING MODEL CHP75B、CHP80B

USAGE The sulfuric acid production has expanded
from 80Kt/a to 120Kt/a, and the total
conversion rate has increased from about
99.3% to 99.8%

SULFURIC ACID TECHNICAL SERVICES



1 Full Lifecycle Consulting Services for Sulfuric Acid Plant

Economic Evaluation for Project Construction, Process Technical Route Evaluation, Plant Construction Project Supervision, Compilation of Plant Commissioning Plan, Plant Operation Optimization Proposal, Plant Operation Fault Diagnosis, Economic Evaluation for Plant Operation, Compilation of Plant Maintenance Planning, Plant Capacity Upgrading, etc.



2 Sulfuric Acid Operation & Management Training

Practical operation and management skills training for production operators, technical engineers, management personnel, etc. Highly simulated sulfuric acid production process site and real failure realized through OTS training system. You can get about two to three years of practical skills after two to three weeks of training.



3 Sulfuric Acid Plant Maintenance Services

Plant shutdown hot-state maintenance service, Plant shutdown cold-state maintenance service, Equipment Improvement Service, professional acid-operated maintenance service and Efficient screening machine customization and screening sub packaging filling service, we provide cost-effective supply of equipment and spares (design optimization & customization).



4 Sulfuric Acid Plant Operation Service

Commissioning/Start-up Services, Full Management of Sulfuric Acid Plant (including productional operation, daily maintenance & annual shutdown)

ADVANTAGES IN TECHNICAL SERVICES

Plant construction

- After the completion of Wylton's four sulfuric acid plants, all of them were successfully put into trial operation in one go.
- Wylton was fully involved and led the design, procurement, manufacturing, installation, and production operation of the four sets of devices.
Wylton was fully involved and in a leading position within the design, procurement, manufacturing and installation of these four production units.

cost control

- The budget investment for the state of Wylton Dazhou is 280 million, but the actual amount is 250 million.
- Up to now, the maintenance cost of the equipment (including major repairs) is less than 3% of fixed assets.

Plant operation

- In total, Wylton's four sulfur-burning acid production units have a capacity of 2 million tons per year. One of them is 800 kt per, and the other three are 400 kt per year separately.
- The annual effective operation time of the 800000 ton/year plant is over 355 days, and the first major overhaul is only carried out after five years of operation. The annual effective operation time for the unit of 800 kt/a is more than 355 days per year, the major shutdown of which for the first time was after five years of its beginning operation.

20 years of production and operation experience

- The two sets of equipment in Fuquan Sulfuric Acid Operation Center have been in operation for more than 20 years, with load rates of around 99.7%.
Two production units are located in Fuquan Sulfuric Acid Operation Center. Till now they have been operating for more than 20 years, and have a yearly average loading rate of 99.7%.
- For 11 consecutive years, the production capacity has exceeded 800000 tons, with the highest reaching 906000 tons.
For 11 years, the yearly output keeps exceeding its capacity of 800 kt, with the highest output over 906 kt.

- Basing on the rich experiences accumulated from Wylton's own sulfuric acid production, project construction management, technical innovation and lean management by reasonable cost input, well-controlled quality & progress etc., help the customers to avoid or reduce the risks from construction, safety, environmental issues, and help the sulfuric acid plant to be successfully put into operation and keep a quality operation safely, environmentally & high-efficiently.
- Wylton owns sulfur-burning acid plants at a total capacity of 2000kt/a, which have been operating safely, environmentally and high-efficiently for more than 20+ years, and we've built a professional technical service team including many experts, engineers, technicians etc., which ensure us to be able to provide complete kinds of technical services needed from customers. Such as technical training service, we have professional training tools like "OTS" "OJT" & training courses like "Required Technical Knowledge & Skills" , and we have an incentive system & a strict check-up system to ensure the training quality of trainees.

SULFURIC ACID TECHNICAL SERVICES

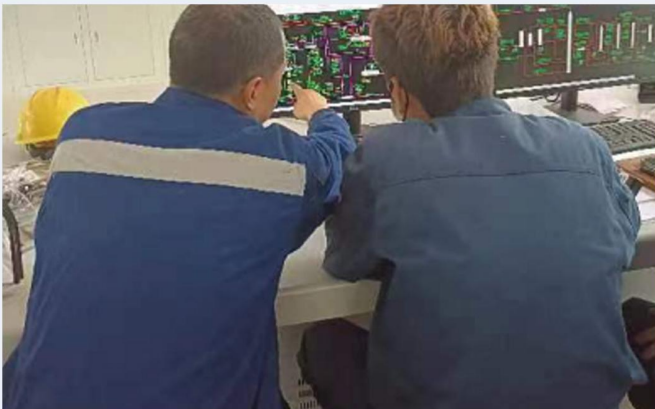
- TYPICAL CASES

consulting service

Domestic market

Guangxi Chuanjinnuo's 300 kt/a sulfur-based acid plant's HRS start-up service

Wylton was contracted for the start-up guidance service for Guangxi Chuanjinnuo's 300 kt/ a sulfur-based acid plant's HRS (waste heat recycle system) in March ~ April in 2023. In addition to guiding start-up of HRS, our service team also helped their sulfuric acid plant being out of crisis that happened during the production operation, which lead to a safe start-up of the whole acid plant, which has been highly praised by the customer.



Overseas market

Venezuelan National Oil Company 300kt/a Sulfur Melting Project

Through our professional reviews, we found 1 mistake in design, 2 missing points in design, 2 quality defects in equipment and 1 quality defect in project construction; And we also provided some technical proposals & suggestions on optimization. We also guided the customer to successfully put the sulfur-melting plant into operation, and reached the designed capacity.



SULFURIC ACID TECHNICAL SERVICES - TYPICAL CASES

TRAIN

Domestic market

Training for 35 operators at Fujian Tianchen Yaolong New Materials Co., Ltd

Many trainees have little to no experience in sulfuric acid production. Wylton (China) provides customized services for the company's trainees so that after nearly three months of training, employees have mastered the start-up technology of sulfur based sulfuric acid production units, forming a production team with initial practical ability, then laying an important foundation for independently completing their unit start-up production.

Wanhua Chemical Group Co., Ltd

After three weeks of sulfuric acid production management training, 8 operational technicians have mastered the theoretical knowledge, start-up and shutdown steps, and key points of sulfuric acid production; Through the OTS simulation training system, I have comprehensively improved my skills in sulfuric acid production operations, learned how to analyze, judge, and handle abnormal situations in sulfuric acid plants, and have about two to three years of practical skills. Lay a solid foundation for the long-term stable operation of the sulfuric acid plant.

Overseas market

- Ningbo Liqin Company's Indonesian sulfuric acid plant trained 19 production and technical personnel
- Training for 10 production management personnel at the sulfuric acid plant of Abu Dhabi Chemical Fertilizer Industry Company in Egypt
- Papua New Guinea Ramu Nickel Cobalt Management Co., Ltd. trained 22 production and technical personnel for the sulfuric acid plant
- Training for 4 production management personnel at the 1500MTPD sulfuric acid plant of Lake Mountain Uranium Company in Namibia



SULFURIC ACID TECHNICAL SERVICES - TYPICAL CASES

OVERHAUL

Domestic market

Guizhou Xiyang Industrial 600kt/a sulfuric acid production service project

The 600kt/a sulfur based sulfuric acid plant has completed high-quality cold and hot exchange maintenance services, with qualified weld inspection, airtightness, and pressure testing in one go, helping customers successfully complete major repairs.

Overseas market

Start-up guidance service for Huayue Nickel Cobalt's Indonesian project (3X800 kt/a sulfur-based acid production plants)

From the "3-checks & 4-ascertainments" before start-up to the successful commissioning, Wylton service team had participated in the whole process and provided necessary support to ensure the successful commissioning of these 3X800 kt/a acid plants, leaving the customers very satisfied. We were awarded another three-year's start-up guidance service contract for the coming 5X1000kt/a sulfur-based acid plants.



OPERATE

Domestic market

Jiujiang Tianci New Power Technology Co., Ltd.'s 400 kt/a sulfur-based acid production project

Wylton has contracted the feeding commissioning/start-up guidance service for Jiangxi Jiujiang Tianci's 400 kt/a sulfur-based acid production plant in August ~ September in 2022, and completed the tasks in 15 days. We also helped the EPC contractor to solve the abnormal problems on the acid concentration instruments on site, and meanwhile we conducted a theoretical and practical training for the owner's operators to ensure start-up safety. We guided the owner's analysis team to standardize the operation of conversion rate analysis and acid concentration analysis, which ensured the accuracy of analysis data so as to guide the production and operation.



OVERSEAS MARKET

Namibia 500kt/a sulfur based sulfuric acid project

The device is fully managed and maintained, with effective operation for 337 days throughout the year. The acid production and power generation have increased by more than 100% compared to previous years, and the molten sulfur condensate water is recovered to save molten sulfur steam.



SULFURIC ACID PROCESSING SERVICES

PROJECT CONSTRUCTION + PRODUCTION MANAGEMENT

- Wylton has built a total of 2000kt/a sulfuric acid production plant to provide customers with sulfuric acid processing services.
- This service cooperation model has been rated as a successful case of "bringing in and going out" by Wengfu Group, and has also been included in the MBA teaching plan;
- Gold Medal Partner of Wengfu Group, providing stable supply of finished sulfuric acid and steam for Wengfu Machangping and Wengfu Dazhou bases, achieving a win-win situation.



TRADE SERVICES

EQUIPMENT & SPARES SUPPLY THROUGH OPTIMIZATION & CUSTOMIZATION

Wylton is working as a professional integrated-services provider in sulfuric acid industry, as well as a regular user & supplier of sulfuric acid equipment for 20+ years. Rich with practical experience and achievements of technical improvements through 20+ years' operation-maintenance-management experience from Wylton's own sulfuric acid plants (capacity $\geq$ 2000kt/a), we are very proficient at finding and solving a plethora of problems existing in sulfuric acid production.

We are confident that we could work on the failure diagnosis of sulfuric acid production system, find problems and provide specific technical proposals accordingly. We perform design optimizations, technical modifications or upgrading to the equipment & spares, complete with competitive equipment & spares supplying through optimization & customization, which will benefit the customers by "cost decreasing & efficiency increasing"

SOME EQUIPMENT



CANDLE TYPE DEMISTER



ACID COOLER



BELLOWS EXPANSION JOINT



SULPHUR PUMPS



STEAM-HEATING COILS



ECONOMIZER



CONDENSER



STEAM MUFFLER



PNEUMATIC VALVES



**BEING AN INTEGRATED
SERVICE PROVIDER
FIRSTLY THOUGHT
BY SULFURIC ACID
CUSTOMERS.**

