



Wylton (China) Chemical Co., Ltd.

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

Contact: Cindy Zhang

Email: cindy.zhang@wylton.com



CONTENTS

01. Company Profile

02. Sulfuric Acid Processing service

03. Catalyst Integrated Services

04. Sulfuric Acid Technical Services

05. Equipment & Spares Supply



01

Company Profile

Wylton (China) Chemical Co., Ltd

(A Secondary Group Company under Wylton Group)



4 Production Sites

2000+ kt/a Sulfuric Acid Production Capacity

34 Years Experience & Abilities in SA Industry

23 Years Experience in Operation, Maintenance & Management of SA Plants

54 Years Experiences in R&D and Production of Vanadium Catalyst

5000+ t/a Vanadium Catalyst Production Capacity

Main Business

Catalyst Integrated
Services



Sulfuric Acid
Technical Services



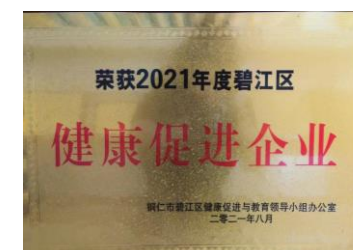
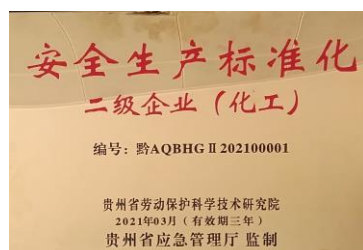
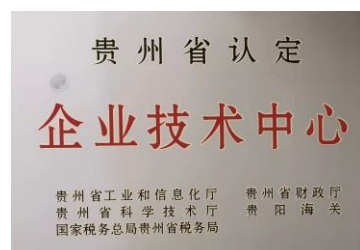
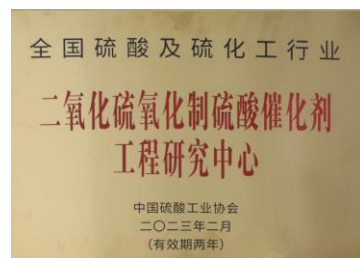
Sulfuric Acid
Processing Services



Equipment &
Spares Supply



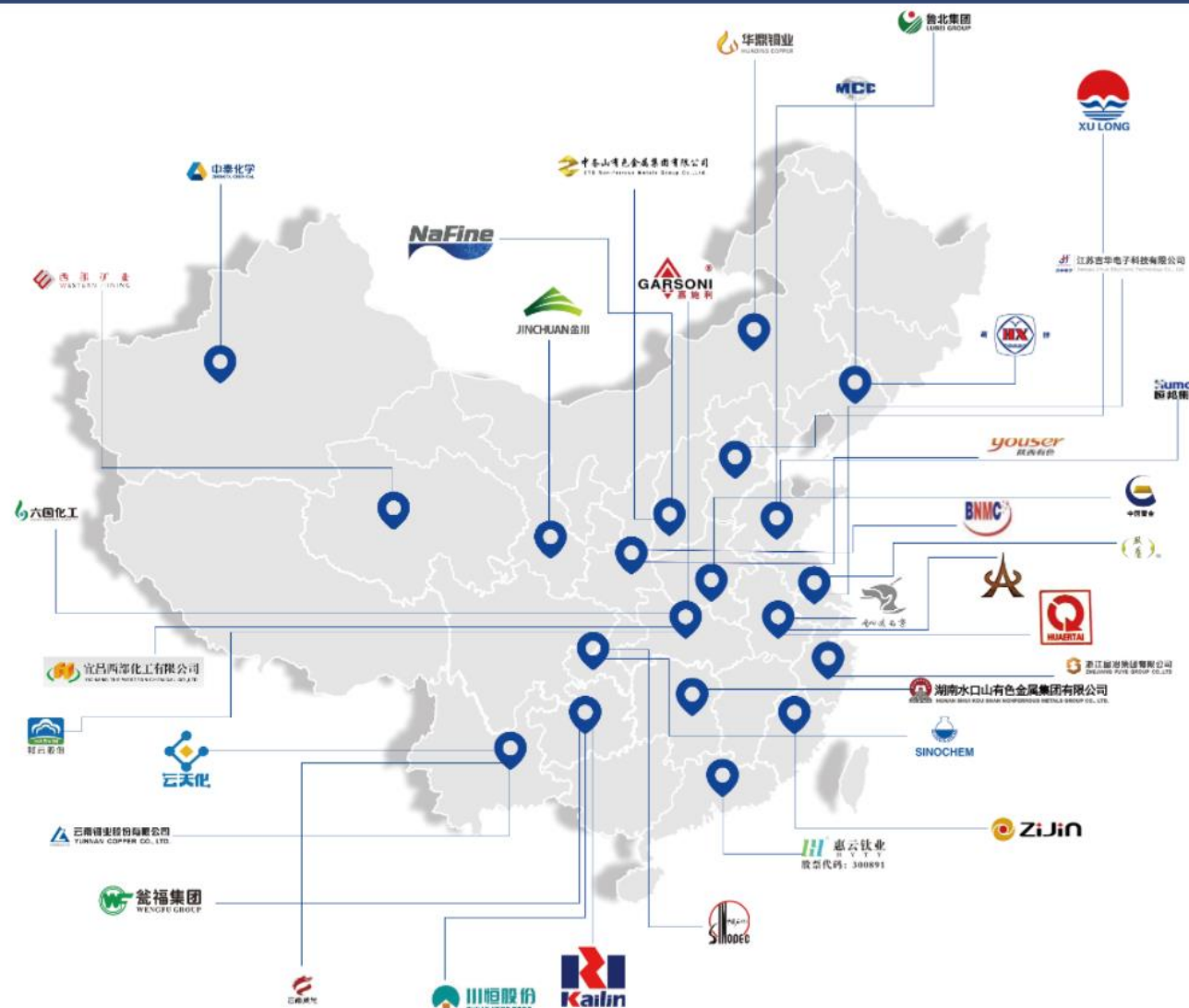
Corporate Culture and Honors



Partners in China

Key Customers in China

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



Cooperative Partner

Main International Customers

Wylton's business has covered multiple countries and regions around the world, providing high-quality sulfuric acid comprehensive services to global sulfuric acid customers.





Sulfuric Acid Processing Service

Sulfuric Acid Processing Service



Since the establishment in 2001, we have been working with Guizhou Phosphat Chemical Group and processing sulfuric acid for them.

Wylton (China) built 4 sulfuric acid production units in their two plants, to process sulfuric acid, with an output of 2000kt/a. All the sulfuric acid and steam are supplied to them directly.



Catalyst Integrated Services

Catalyst Integrated Services

01

**High-performance sulfuric acid catalyst
manufacture and customization of loading design**

02

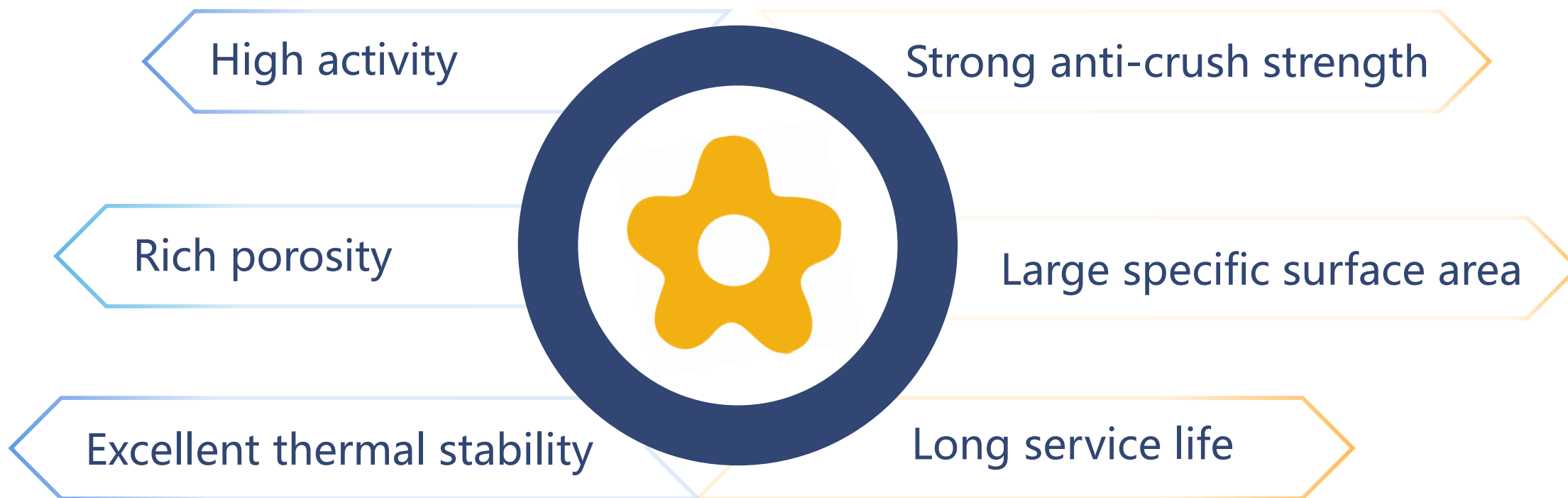
**Catalyst Screening Service &
Efficiently Automated Machine**

03

Health diagnosis of conversion process



Advantages of Catalysts



Introduction of Catalyst Products



Main models:

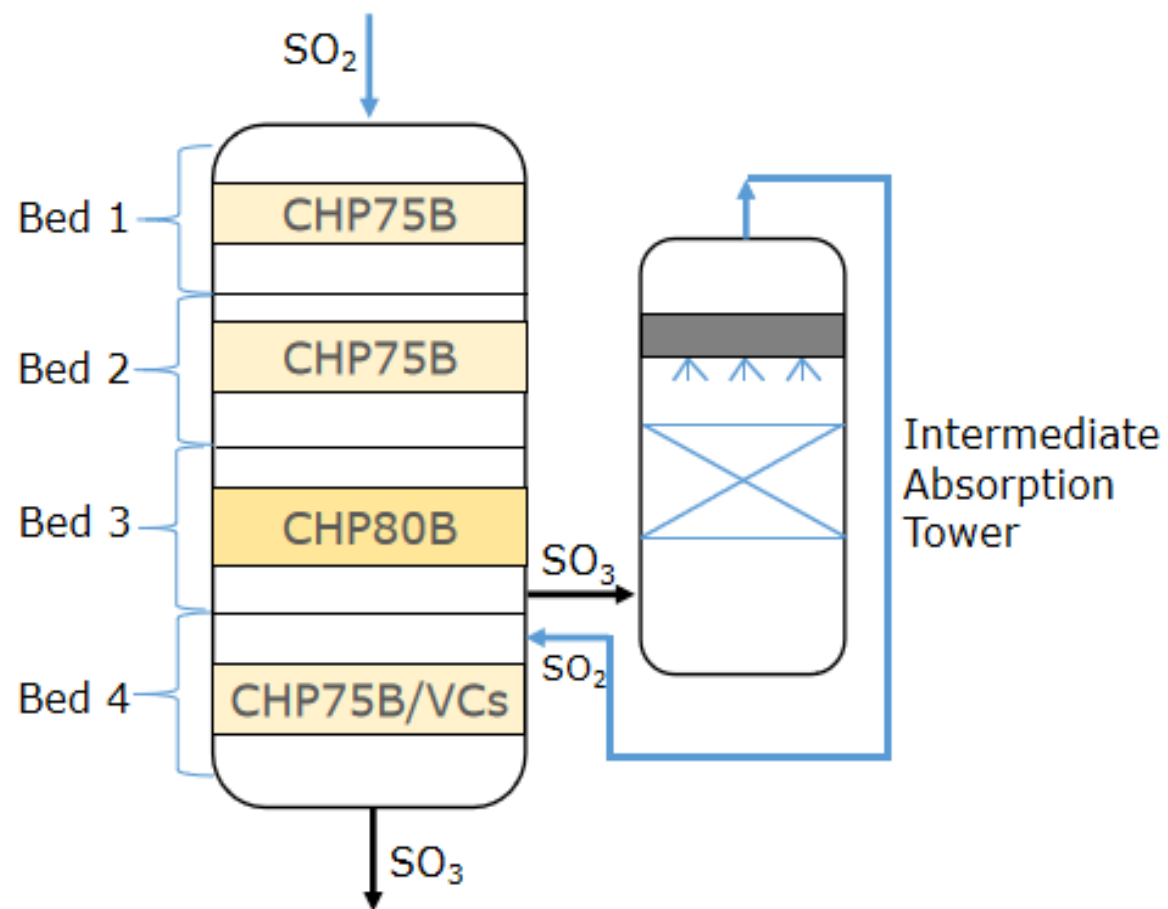
- CHP75B-CH
- CHP80B-CH
- VCs50B-CH
- VCs70B-CH

Packing:

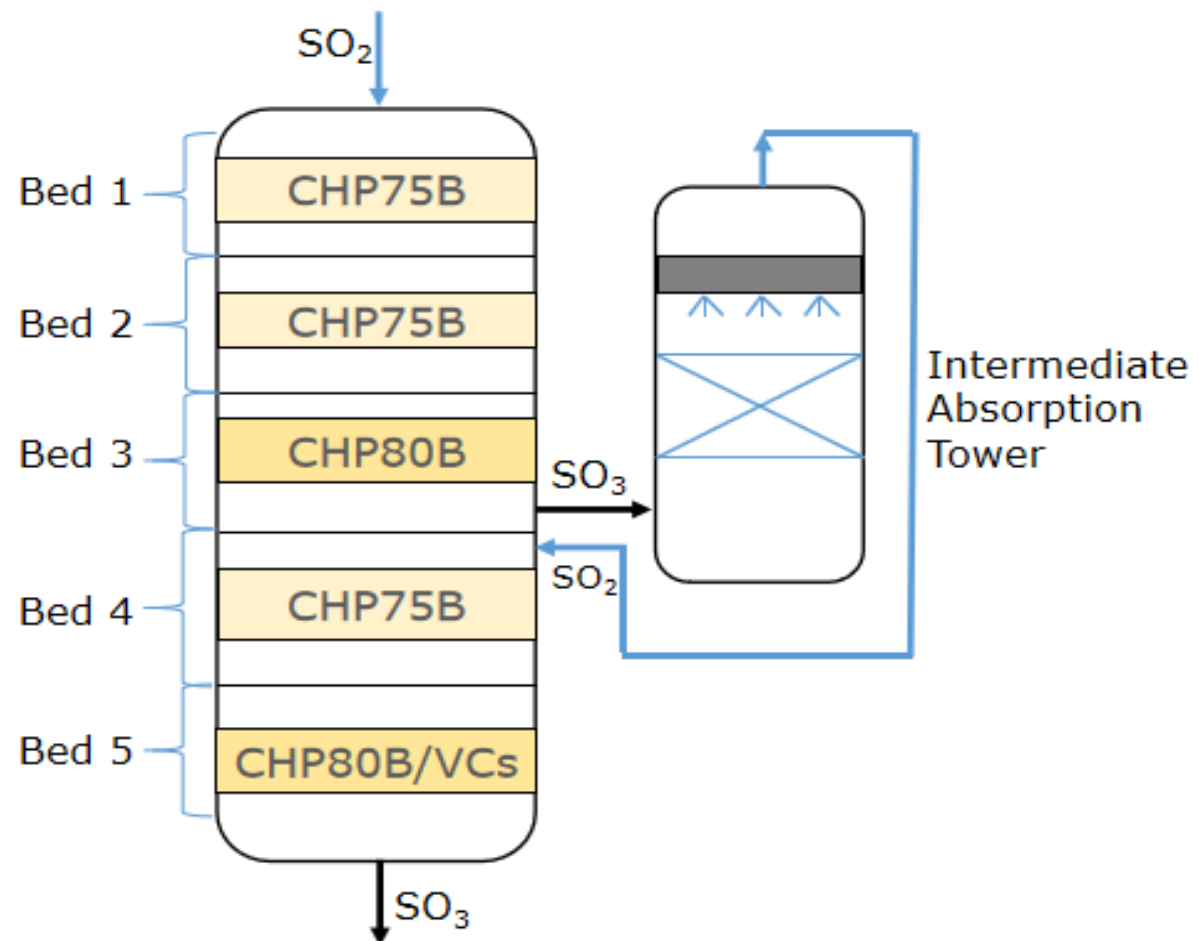
- 200L/drum, 4 drums per pallet

Loading suggestions

DCDA (3+1) Conversion Process



DCDA (3+2) Conversion Process



Catalyst Integrated Services - Case Study

Yunnan Tian'an Chemical Co., Ltd.

Design capacity: 800kt/a sulfur-based plant

Before using Wylton's catalyst:

Conversion rate: 99.48%

Production capacity: 2470MTPD

After using Wylton's catalyst:

Conversion rate: 99.84%

Production capacity: 2544MTPD

Before

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

After

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

Catalyst Integrated Services - Case Study

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%**.

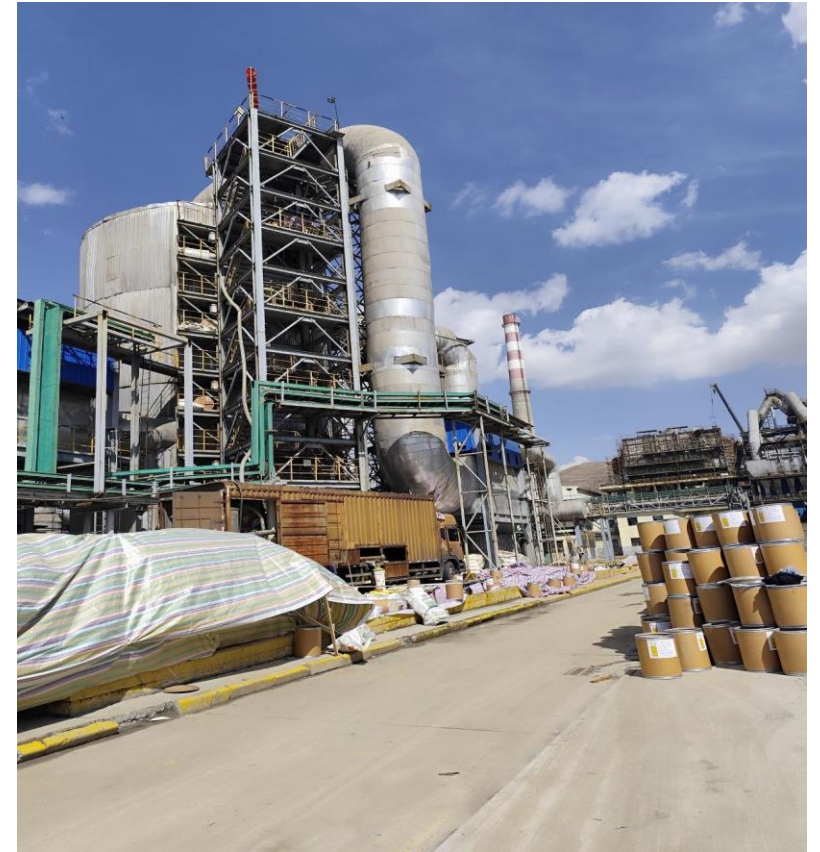
Location	SO ₂ (%)	O ₂ (%)	Accumulated conversion rate(%)
Inlet of Pass #1	10.36	8.65	/
Inlet of Pass #4	0.78	4.8	94.17
Outlet of final absorption tower	0.012	4.21	99.9

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

Catalyst Integrated Services - Case Study

West Mining Group Qinghai Copper Co., Ltd.

Wylton provided technical diagnosis, identified the leakage location, proposed design optimization and catalyst replacement solutions, which improved the conversion rate and reduced tail gas emissions for the client.





Sulfuric Acid Technical Services

Sulfuric Acid Technical Services

- 01 Full Lifecycle Consulting Services for SA Plant**
- 02 Sulfuric Acid Operation & Management Training**
- 03 Sulfuric Acid Plant Maintenance Services**
- 04 Sulfuric Acid Plant Operation Service**



Sulfuric Acid Technical Services - Case Study

Venezuelan National Oil Company 300kt/a Sulfur Melting Project

Technical assessment, rectification, and guidance for successful start-up and operation



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

Wylton provided startup guidance for the HRS system, and offered technical guidance and handled issues when problems occur in other systems, ensuring the smooth startup and operation of the entire plant.

Sulfuric Acid Technical Services - Case Study



Wanhua Chemical Group Co., Ltd.

Three weeks training of eight operation technicians to equip them with at least 2-3 years of practical operation skills

Other training cases

- 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 - Case Study

Start-up guidance service for Huayue Nickel Cobalt's Indonesian project (3*800 kt/a sulfur-based acid production plants)

Wylton provided startup guidance for three sulfuric acid production lines with an annual output of 800,000 tons. After gaining client recognition, we signed contracts for startup services of five additional production lines with an annual output of 1 million tons.



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

The cold and heat exchangers of the 600,000 ton production line were replaced and passed the relevant safety monitoring at one time.

Sulfuric Acid Technical Services - Case Study

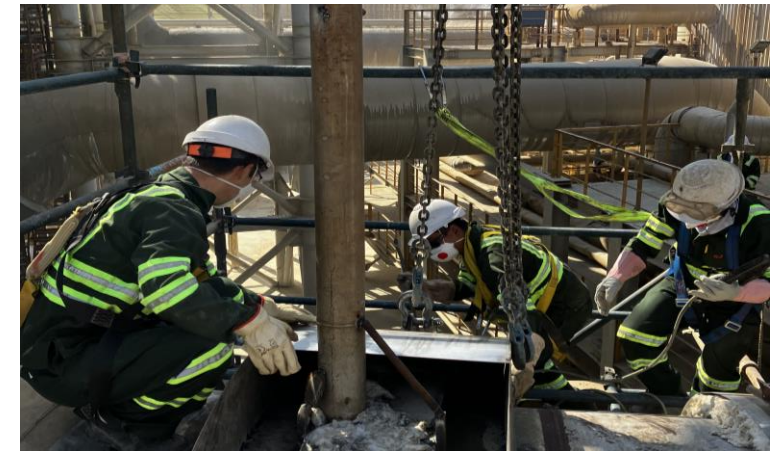


Jiujiang Tianci New Power Technology Co., Ltd.'s 400 kt/a sulfur-based acid production project

Responsible for material feeding, commissioning and start-up guidance services, assisted EPC contractors in handling other equipment abnormality issues, provided training services for business operators, ensuring smooth start-up and data analysis of the business team.

Namibia 500kt/a sulfur based sulfuric acid project

Responsible for the daily maintenance and repair of the equipment



Sulfuric Acid Technical Services - Case Study

Provided the world's third largest uranium producer - **Swakop Uranium Company** with daily maintenance service for its 500kt/a sulfuric acid production facility. Through the sincere cooperation, resource sharing, and advantages from both sides, Wylton helped with their cost reduction and efficiency improvement, achieving an additional revenue of **\$5.08 million** in 2023.



Increase by 124.0% in sulfuric acid production

↑ **124.02%**

Increase by 79.1kt from 33.03kt in 2022 to 40.94kt in 2023

337.3 days of uptime for 2023

337.3 days

290 days of uptime, 30 days of planned downtime and 35 days of unplanned downtime for 2022



Increase by 148.1% in power generation

↑ **148.1%**

Increase by 23.03 million kWh from 47.89 million kWh in 2022 to 70.92 kWh in 2023

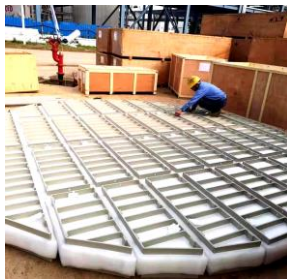
40kt/a Condensed water
72kt/a Steam

Condensed water recycling from sulphur melting, steam saving for sulphur melting and avoiding wasting



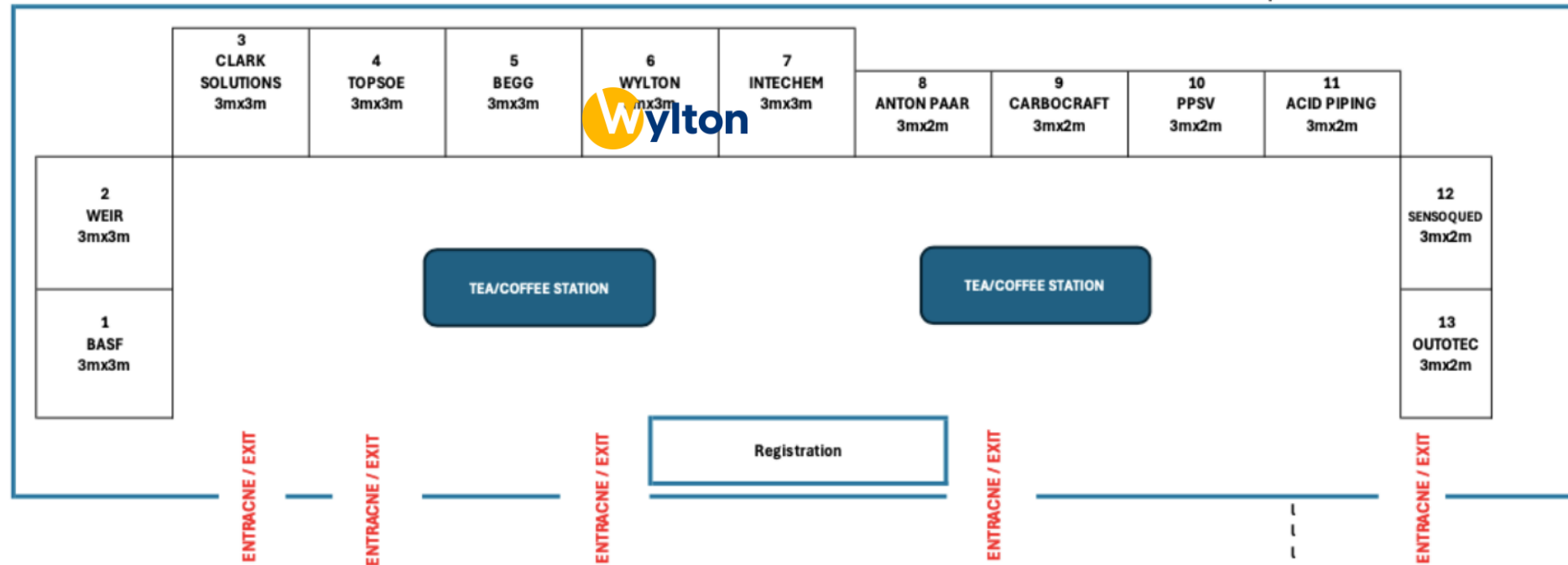
Equipment & Spares Supply

Equipment & Spares Supply



Based on our own experience accumulated in our more than 23 years management of the 4 sufluric acid production unites, we are very professional in identifying equipment issues and providing corresponding modification and upgrading solutions, along with competitive sourcing for equipment and spare parts.

Our Stand: #6



Wylton (China) Chemical Co., Ltd. ---

An Integrated Services Provider for Worldwide Sulfuric Acid Industry!



THANK YOU!

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

Contact: Cindy Zhang

Email: cindy.zhang@wylton.com

