

**GWIPPO**



**Company Culture**

Great  
+  
Workmanship  
+  
Idea  
+  
Personalise  
+  
Popularize  
+  
Objective

**GWIPPO**

**30 YEARS** EXPERIENCE IN RESEARCH &  
MANUFACTURING ENAMEL



**JIANGYIN GWIPPO ENAMEL CORP.,LTD**

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Enamel

Water Heater Enamel

**HOT WATER  
TANK ENAMEL**

LET ENAMEL CREATE BIGGER VALUE

STOCK CODE:871274

STOCK NAME:GWIPPO ENAMEL



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# INHERITING EXCELLENCE & CREATING THE FUTURE TOGETHER

GWIPPO will continue to focus on customer needs, strengthen its presence in the field of enamel, innovate constantly, expand and fortify its main business. We shall continue to bring advanced enamel products to customers and provide them with a new experience.



## ENTERPRISE PROFILE

JIANGYIN GWIPPO ENAMEL CORP., LTD

Founded in 1995, Jiangyin GWIPPO Enamel Corp., Ltd. is the corporation responsible for the drafting 8 national industrial standards in the field of enamel. Besides, the corporation has obtained 5 patents and more than 20 utility model patents. GWIPPO is a technology driven company in Jiangsu Province that integrates the R&D of enamel with manufacturing, sales and services of enamel products. It covers a land area of 38 acres with built-up area of 18,000 square meter.

The key products of GWIPPO include enamel materials, water heater enamel, large-capacity enamel lining pressure tank, commercial electric water heater and glass-lined pipes and fittings. We have accumulated 30 years of experience in the R&D of enamel and 26 years experience in the manufacturing of enamel products. Riding on our technical expertise and a professional service team, we strive to create great products coupled with great after sales service. Achieving great customer satisfaction is our top priority.

Upholding our core values of integrity and professionalism, we continue to grow the market. We look forward to working together with more customers around the world, serving them well and create a brighter future together. **GWIPPO was successfully listed on the Third Board as "GWIPPO Enamel" with code 871274.**

## FOCUS ON THE RESEARCH AND DEVELOPMENT OF ENAMEL FRIT FOR MORE THAN 26 YEARS.

Vitreous enamel professional manufacturer



## WHAT IS INDUSTRIAL GRADE ANTI-CORROSION ENAMEL?

The requirements for industrial grade enamels are very high. That is because the operation environment is associated with extreme conditions such as strong acids, strong alkalis, rapid temperature changes and etc. Therefore industrial grade anticorrosive enamels must be able to cope with these conditions.

The inspection standards of the physicochemical properties of industrial grade enamels are much higher than those of household water heater enamels. **For example, its corrosion resistance is tested again 80°C sodium hydroxide and its resistance to boiling point enamel loss is 0.55g/m<sup>2</sup>.**

GWIPPO industrial grade enamels adhere to strict industrial standard, protecting the lining against corrosion. **Gwippoglas industrial grade enamel lining extending the life span 5 years longer!**



**QUESTION:**  
What are the key components that determine the lifespan of a water heater?

**ANSWER:**  
Enamel Lining

**QUESTION:**  
What is the core technology of the enamel lining?

**ANSWER:**  
Anti-Corrosion Enamel

## NATIONAL STANDARD PREPARED BY GWIPPO

No.	Standard Name	Standard Type	Standard No.	How to participate
1	Vitreous and porcelain enamels-Determination of resistance to chemical corrosion by boiling acids and their vapours	National standard	GB/T 7989-2013	Mainly drafted by Gwippo
2	Vitreous and porcelain enamels-Determination of resistance to alkaline liquids	National standard	GB/T 7988-2013	Mainly drafted by Gwippo
3	Specification of glass-lined equipment for industry	National standard	GB 25025-2010	Mainly drafted by Gwippo
4	Determination of coefficient of mean linear thermal expansion for vitreous and porcelain enamels	National standard	GB/T 25144-2010	Mainly drafted by Gwippo
5	Vitreous and porcelain enamels-Determination of resistance to therm shock	National standard	GB/T 7987-2003	Mainly drafted by Gwippo
6	Vitreous and porcelain enamels-Determination of resistance to hot sodium hydroxide	National standard	GB/T 7988-2002	Mainly drafted by Gwippo
7	Impact test method of glass lined layer	National standard	GB/T 7990-2002	Mainly drafted by Gwippo
8	Vitreous and porcelain enamels-Determination of resistance to condensing hydrochloric acid vapour	National standard	GB/T 7989-2003	Mainly drafted by Gwippo

## INDUSTRIAL STANDARD PREPARED BY GWIPPO

No.	Standard Name	Standard Type	Standard No.	How to participate
1	Vitreous and porcelain enamels	Industry standard	HG/T 4798-2014	Mainly drafted by Gwippo
2	Vitreous and porcelain enamels for sheet steel-Production of specimens for testing	Industry standard	HG/T 3105-2009	Only prepared by Gwippo
3	Vitreous and porcelain enamels-Determination of fluidity behavior-fusion flow test	Industry standard	HG/T 2735-2009	Mainly drafted by Gwippo
4	Standard test methods for sieve analysis of porcelain enamels	Industry standard	HG/T 3128-2009	Mainly drafted by Gwippo
5	Vitreous and porcelain enamels-Determination of resistance to abrasion	Industry standard	HG/T 3221-2009	Mainly drafted by Gwippo
6	Water storage tank with enamel interior for air-source heat-pump water heaters	Industry standard	NB/T 34034-2016	Mainly drafted by Gwippo

# COMPANY HONOR

## ENTERPRISE PROFILE



### Honor authorized by National Association and Jiangsu Province



- Outstanding Contribution Award of China Chemical Equipment industry
- Member of the Council of China Enamel Industry Association
- Standing Committee Unit of China Enamel Industry Association Industry Enamel Branch
- Top Ten Enterprises in China's Light Industry Enamel Industry
- Panel Solar Thermal Utilization Committee of China Solar Thermal Utilization Industry Alliance
- High-tech Enterprise in Jiangsu Province
- Standard Implementation Enterprise in Jiangsu Province
- Private Technology Enterprise in Jiangsu Province

### Honor authorized by Wuxi Government

- Wuxi AAA-level enterprise of "Honouring contracts and keeping promise"
- Wuxi technology innovation enterprise
- Wuxi "Little Giant" enterprise
- Top Ten Outstanding Companies in the Real Economy
- Wuxi famous brand products certificate
- Top Ten Science and Technology Cultural and Creative Enterprises



# COMPANY PATENT

## ENTERPRISE PROFILE

### PROVINCIAL HIGH-TECH PRODUCTS //



### INVENTION PATENT //



### UTILITY MODEL PATENT //



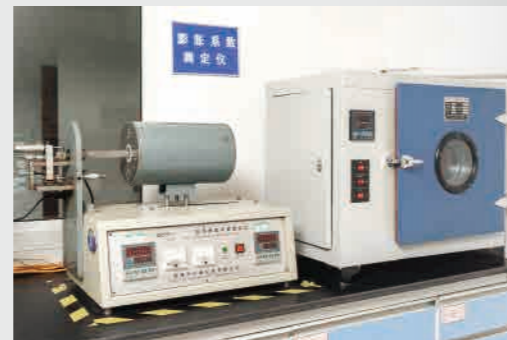


# R&D CENTER

TECHNICAL ADVANTAGE AND SERVICE

## Jiangyin GWIPPO Enamel Corp., Ltd.

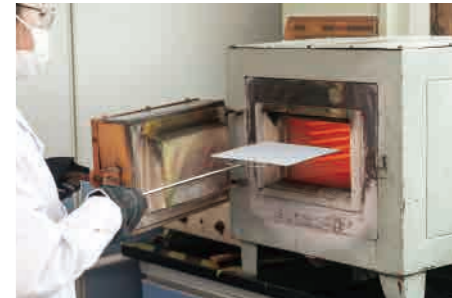
- High-tech Enterprise in Jiangsu Province
- Enamel sintering lab
- Physics and chemistry laboratory
- Enterprise Technology Center of Wuxi
- Graduate student Workstation of Donghua University
- Science and Technology R&D Institution of High performance enamel material research institute center of Wuxi



# TECHNICAL ADVANTAGE

AND SERVICE

- Professional after-sales service team.
- 30 years experience in enamel industry.
- Complete formula systems.
- Master mature rolling and spraying enamel coating technology.
- Customize enamel formula based on customers' different process requirements.
- Gwippo Office Enamel Coating Solution within 24 hours according to customers' requirements.



Gwippo has nearly 30 years of experience in anti-corrosion enamel technology. Mr Xianzhong Yu, who won the "Personal Outstanding Contribution Award" issued by the China Enamel Industry Association many times, is the founder and former president of Gwippo, as a professional enamel expert he has devoted his life to the Chinese enamel industry. He is proficient in formula design, processing technology, production equipment and product application, a number of research results have won the "National Invention Patent", five research laboratories have been established and a group of outstanding R&D engineers have been cultivated during past two decades. At present, the R&D team is conducting research on the project of production, education and research with a number of universities, not forgetting its original intention, adhering to the craftsman spirit of the predecessors, and insisting on continuing to cultivate in the field of anti-corrosion enamel materials. Enamel used for water heaters is independently researched and developed by Gwippo has also won national invention patents and provincial high-tech product, increasing the service life of the water heater tank from 5 years to 10 years.

## GWIPPO SELF-DEVELOPED WATER HEATER ENAMEL IS APPROVED WITH NATIONAL INVENTION PATENT AND PROVINCIAL HIGH-TECH PRODUCT CERTIFICATION



PATENT FOR INVENTION //



GWIPPO enamel lined water heater mainly used with water heater inner liner, which is commonly referred to as enamel inner liner. Having compared to stainless steel inner liner, enamel inner liner is resistant against hot water and corrosion. It is clean, safe and healthy to use. The use of enamel inner liner greatly extend the lifespan of water heater, also pushes the hot water revolution to a brand new living trend.

GWIPPO water heater enamel has strict requirement against physical and chemical properties, especially for boiling water resistance, alkali resistance and tightness. These three indicators decide the lifespan of the inner liner. Excellent quality control as well as flexibility and on-time after sale service are the service attitude and commitment of GWIPPO to customers.

**SUGGESTIONS ON THE SELECTION OF MATERIALS AND PROCESSES FOR HIGH-QUALITY WATER HEATER INNER TANKS**

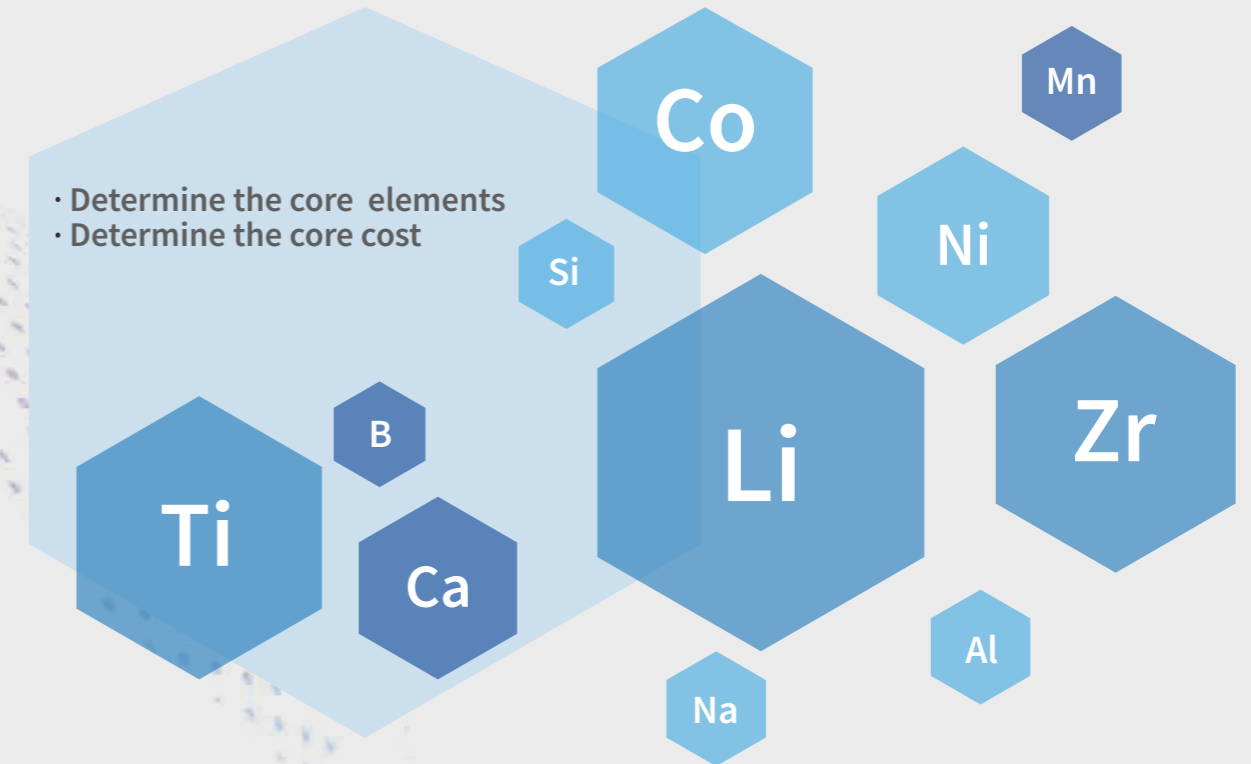
Process/material	recommended ✓	not recommended ✗
Pre-process	<b>Sandblasting</b> Strong bonding adherence to make smooth and firm surface	<b>Pickling</b> Poor adherence and adsorption, fish-scaling is east to occur
Enamel	<b>Spraying enameling</b> The enamel layer is dense and uniform, with good controllability and local area can be thickened.	<b>Rolling enameling</b>
Inner tank steel plate	<b>Hot rolled enamel steel plate</b> specially made steel for enamel water heater	<b>Cold rolled pickled steel plate</b>

Gwippo suggests that the enterprise standard for glass-lined water heater is that the enamel should be customized designed as per production processes.

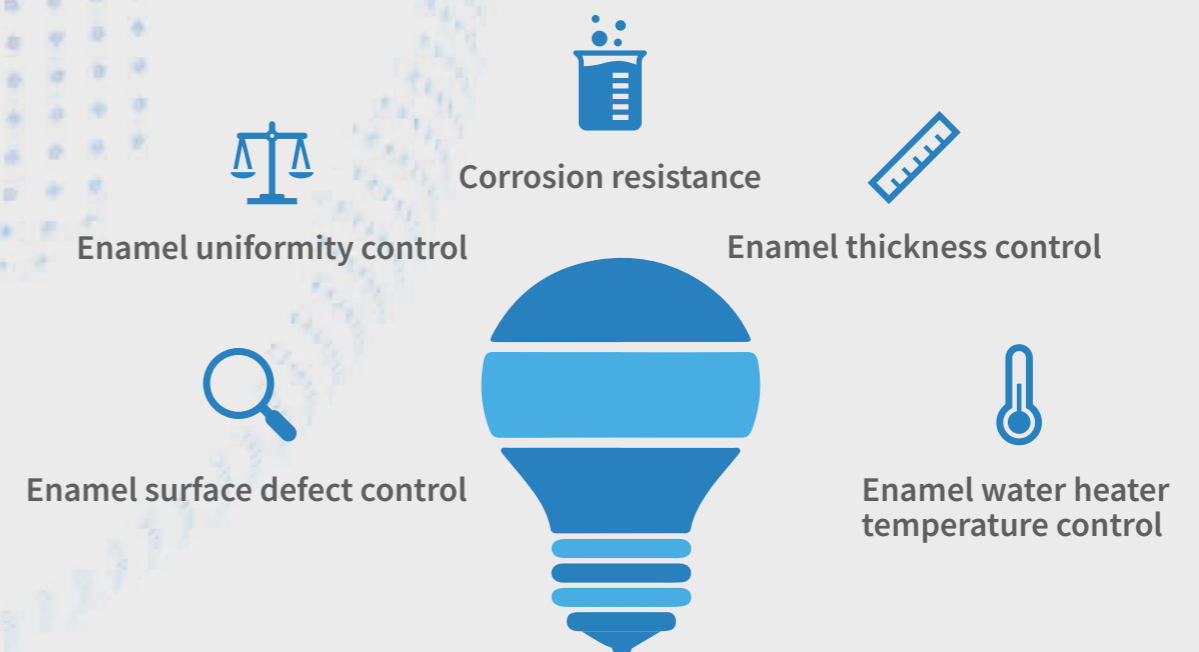
**CLASSIFICATION OF WATER HEATER ENAMEL FRIT**



**KEY CHEMICAL COMPOSITION**



**ANALYSIS OF THE SERVICE LIFE OF WATER HEATERS**



## DIPPING ENAMEL COATING IN WET PROCESS

MODEL NO.	PRODUCT	MAIN PERFORMANCE	SINTERING TEMPERATURE
LJ-01	Enamel powder	Excellent physical and chemical properties (Hot water resistance weight loss $\leq 4.5g/m^2$ , alkali resistance weight loss $\leq 0.14mg/cm^2$ ); With steady flow ability ; Suitable for sand blasting and pickling processes.	850-860°C
L-01(P)#	Enamel powder	Suitable for sand blasting and pickling processes water heater and coil.	830-850°C
L-01(3)#	Enamel powder	With good stillness performance , suitable for sandblasting process water heater	830-850°C
L-01 (A6910H1)	Enamel powder	Grade 1 enamel adherence performance ,enamel is good during circumferential seam , suitable for sandblasting process water heater	850-860°C
L-01(7)#	Enamel powder	Grade 1 enamel adherence performance , with good stillness performance , suitable for sand blasting process water heater .	850-860°C
L-01(10)#	Enamel powder	Good flow ability , lower temperature , suitable for sand blasting and pickling processes water heater .	830-840°C
L-01(11)#	Enamel powder	Grade 1 enamel adherence performance , good flow ability , lower temperature , suitable for sand blasting processes water heater .	830-840°C
L03-3	Enamel powder	Grade 1 enamel adherence performance , suitable for sand blasting processes solar water heater .	850-860°C

## SPRAYING ENAMEL COATING IN WET PROCESS

MODEL NO.	PRODUCT	MAIN PERFORMANCE	SINTERING TEMPERATURE
L-01B	Enamel powder	Excellent physical and chemical properties (Hot water resistance weight loss $\leq 4.5g/m^2$ , alkali resistance weight loss $\leq 0.14mg/cm^2$ ); Grade 1 enamel adherence performance ; Suitable for sand blasting and pickling processes.	850-860°C
L-01(L)#	Enamel powder	The enamel glaze has stable performance and it is easy to operate; Suitable for butt weld and circumferential seam weld water heater , good enamel covering performance; suitable for sandblasting water heater	830-850°C
Blue crystal-1#	Enamel glaze	Excellent physical and chemical properties (Hot water resistance weight loss $\leq 2.3g/m^2$ , alkali resistance weight loss $\leq 0.12mg/cm^2$ ); The enamel layer is uniform, excellent bubble structure; suitable for sandblasting process water heater	830-850°C

## ENAMEL FOR STAINLESS STEEL HEATING ELEMENT

MODEL NO.	PRODUCT	MAIN PERFORMANCE	SINTERING TEMPERATURE
L03-A697	Enamel powder	Excellent physical and chemical properties (Hot water resistance weight loss $\leq 3.9g/m^2$ , alkali resistance weight loss $\leq 0.14mg/cm^2$ ); Cobalt blue, the enamel layer is dense and uniform, with steady flow ability and good stillness performance .	850-860°C

## PERSONALIZE

### PRODUCT CATEGORIES

Large capacity pressurized commercial glass-lined water heater



Stainless steel heating element



Enamel heat exchanger coil



Vitreous enamel water heater



# GLOBAL SALES AND KEY ACCOUNTS

## POPULARISE GLOBAL SALES AND PARTNERS

Gwippo focuses on the field of high-performance anti-corrosion enamel, products have been exported to Korea, Philippines, South-east Asia and so on.



# OBJECTIVE



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