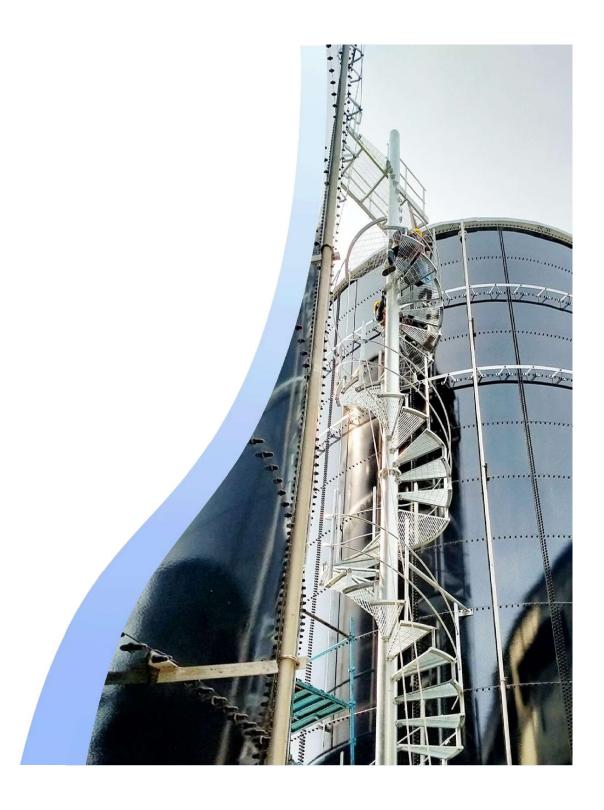


GFS Tanks | Epoxy Tanks | SS Tanks | Aluminum Dome Roofs

Storage solutions

More info at www.proxico.eu office@proxico.eu





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NO1. About Company

The company and product introduction

NO2. Advantages and R&D Ability

Why choose Center Enamel Tank solution

NO3. Production & Quality Control

The main production steps and main QC inspectations

NO4. Project Reference

Center Enamel Tanks overseas successfull project reference list

About Company







- Professional manufacturer dedicated to the design and fabrication of enameled products since 1989.
- We begin with: enamel frit | enameled cookware
 Glass-Fused-to-Steel (GFS) tanks
- Now we can also provide various types of bolted tanks:
 Epoxy tanks | Stainless Steel Tanks | HDG tanks
 Aluminum Geodesic Dome Roofs
- Old factory area: 50,000m2
- Old production ability: 150,000 pc of sheets/year
- Design Standard: AWWA D103, OSHA, EN28765, EuroCode

Center Enamel is not only the first manufacturer in China which produces Glass Fused to Steel Tanks, but also the most experienced professional bolted tanks manufacturer in Asia.



Our New Production Base

Finished CONSTRUCTION!~

- > Plant area: 100,000m2
- Production ability: 250,000 pc sheets/year
- > Trial production: Dec. 2023
- > Formal production: Jan. 2024





Successfull Projects Worldwide

• Center Enamel has shipped its products to more than 100 countries around the world, and it is still reaching out to the world today.



Our Advantages

WHY Choose Center Enamel Tanks:



Laboratory Room



- More than 30 years experience in Enameling industry

 The only GFS tanks manufacturer which can produce enamel frit as well
- Engineering Design Standards- AWWA D103, OSHA, ISO28765, EUROCODE

 The only Asian GFS tanks manufacture which can be widely accepted in US market
- Professional Experience with international Market
 Successful GFS tanks projects in more than 100 countries worldwide
- Cooperate with Well-known international Corporations

 Veolia, Coca-Cola, Aciona, Paques, China Power, Sinopec, Wilmar, Porsche, CNNC etc.

International Certifications

ISO9001 Certificate



NSF/ ANSI 61 Certificate

NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

Shijiazhuang Zhengzhong Technology Co., Ltd. Facility: Hebei, China

AS COMPLYING WITH NSF/ANSI/CAN 61 AND ALL APPLICABLE REQUIREMENTS.

PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE

AUTHORIZED TO BEAR THE NSF MARK.







This careaficans in the property of NSF International and train for recursoil upon request. This certifican remains void so being as this client has produces in NSF's Official Listings for the referenced standards. For the most narrout and complete Listing of freedom, places and produce Conversal angu-

August 7, 2019 Certificate# C0454312 - 01 Thorosa Bellish General Manager, Water Systems

FDA Certificate



Verification of FDA Compliance

Certification No.:RJSCHN1212815A FDA

Test Report No.: RJS1212815A FDA

Applicant:

QINGDAO LEDAR CHEMICAL CO., LTD.

Address:

HAIER INDUSTRY PARK, JIAOZHOU, QINGDAO, SHANDONG, P.R.CHINA.

THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA

FDA Facility Registration No.: 14633722906

Product Description:

LEDAR-MS100 SEALANT

Test Standards:

US FDA FOOD CONTACT ARTICLE TEST IN ACCORDANCE

WITH 21 CFR 175.300 - RESINOUS AND POLYMERIC

COATINGS

Test Performing Date: Test Laboratory:

ate: JAN. 29, 2013 TO JAN. 31, 2013

Date of Issue:

JUL. 06, 2015

Conclusion

This certificate is only valid for the equipment and configuration described, in conjunction with the test date detailed above.

This certificate makes no other representations or warranties, nor does it make any representations or warranties to any person or entity other than the named certificate holder, RJS standard testing & certification center assumes no liability to any person or entity in connection with the foregoing.



2 Emma Hsu



-CENTER- Chief Operation Officer
Date: Jul. 20, 2015

RJS STANDARDS TESTING & CERTIFICATION CENTER (HIC)

International Certifications

ISO/EN 28765

ISO/EN 28765



TEST REPORT

REPORT NO: 2019CE0555-S1 PAGE: 1 OF 4

This Task Deport refers only to perspite substitled by the opplicate to SISBE CAS International Size. Bird. and wisted by SISBE CAS International Size, Bird. This Test Report shall not be remoduced, enough in full and shall not be used for any proques by year resemble or forms (including out not invited to advertising purposes) willout written approval time the Managing Director, SISBE CAS International Size. Bird. Programme or common statement of the statement

THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant

Manufacturer

SHIJIAZHUANG ZHENGZHONGTECHNOLOGY CO. LTD. Husan East Road 81#, Zhengding, Shi Jiazhuang, 050800 Shijiazhuang City, Hebei Province, China.

Vitreous and Porcelain Enamels Bolted Steel Tanks for the Storage or Treatment of Water

Reference Standard /

: ISO 28765 : 2016 - Title: Vitreous and porcelain enamels- Design bolled steel tanks for the storage or treatment of water or municipal or industrial effluents and sludges Received one (1) sample of Vitreous and Porcelain Enamels Bolted Steel

Description of Test Tanks for the Storage or Treatment of Water for testing which was

identified as:

Brand : Center Enamel 21 February 2019

Date Received of Complete Application

Job No.

J20191400219

: The submitted test sample as described in this test report complied with Description of Test all the requirements of the above Reference Standard.

Results / Overall Test

Issued Date : 14 May 2019

Approved Signatories;

(MUHAMMAD RIZAL BIN ABOUL (HAHNAS BINTI MAHBUT) miral & Consumer Section

WRAS

Approval Number 2211553 Test Report: MA7772/Y

Shijiazhuang City.

Hebei Province

Shijiazhuang Zhengzhong Technology Co., Ltd. Huaan East Road 81#.



Water Regulations Approval Scheme Ltd. Willow Road, Pen y Fan Industrial Estate,

Crumin NP11 4EG

WATER REGULATIONS APPROVAL SCHEME LTD. (WRAS)

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-12000 and/or 2014 Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the

COATINGS, PAINTS & LININGS- FACTORY APPLIED PIPE & FITTINGS COATINGS.

'CEC-GFS Enamel, Black Blue RAL5004'. Factory applied, blue/black (appears black) coloured, enamel coating.

Apply as per manufacturer's instructions 'ZZ-Ins001', dated '2021.01.01'.

GFS-G base glaze: dry for 15 Minutes at 200°C then fire for 12 minutes at 870°C. GFS-S surface glaze: dry for 15 Minutes at 200°C then fire for 10 minutes at 830°C.

For use with water up to 85°C.

This material is only approved for the drying and firing conditions that appear on the approval. If the drying and/or firing are varied

APPROVAL NUMBER: 2211553
APPROVAL HOLDER: SHIJIAZHUANG ZHENGZHONG TECHNOLOGY CO., LTD.

The Scheme reserves the right to review approval. Approval 2211553 is valid between November 2022 and November 2027

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wrasapprovals.co.uk/approvals-directory/ Yours Faithfully

The Water Regulations Approval Scheme Ltd. Registered in England No. 1303094 Registered office: 6D Lowick Close, Hazel Brove, Stockport, SK7 SED.
WRAS Area: 30451 core 2.0
Tet: 444001495 244 666 Fix: 44401195 244 666 Emplished/American Scheme Ltd. American Sche

CE Certificate/EN1090





Notified body No1697 Bureau Veritas Latvia 17a Duntes street, Riga, LV-1005, Latvia

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction pro-

design and manufacturing of steel and aluminum alloy structure components, steel structure with vitreous enameling coating

(characteristics are detailed in the attached annex) placed on the market under the name or trade mark of

Shijiazhuang Zhengzhong Technology Co., Ltd.

No.81 Huaan East Rd, Zhengding, Shijiazhuang City, Hebei province, China and produced in the manufacturing plant

No.81 Huaan East Rd, Zhengding, Shijiazhuang City, Hebei province, China

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 1090-1:2009+A1:2011 Execution of steel structures and aluminium structures - Part 1: Requirements for conformity assessment of structural components

under system 2+ are applied and that

the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 15/12/2023 and will remain valid until 14/12/2026 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

To check the validity date of this certificate, please call +371 67323246.

Annex to certificate on 1 (one) page is integral part of this certificate.

Further clarification regarding the scope of this certificate and the applicability of the system requirements may be obtained by consulting to Bureau Veritas Latvia.

Riga, 15/12/2023

Certificate issued:

Certificate validity: 14/12/2026

Bureau Veritae Latvia Ltd Member of the board



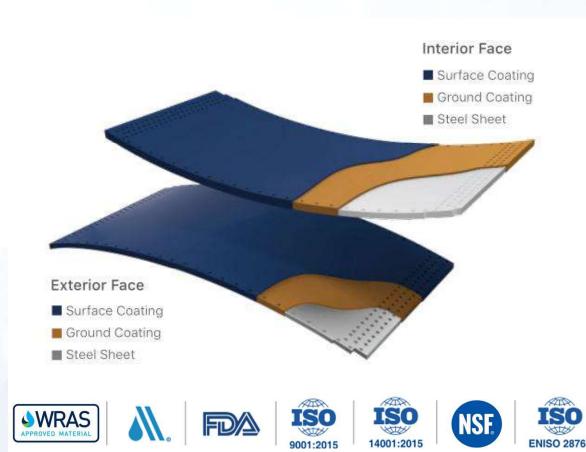
SIA Bureau Veritas Latvia Product Certification Body. Certificate F_S/BI_2+_eng Page. 1 of 2 - Rev 07, 19.10.2021.

What is Glass-Fused-to-Steel?

After firing at 820 ° C-930 ° C high temperature, the molten glass reacts with the steel plate surface to form an inert and inorganic bond, which combines the strength & flexibility of steel and outstanding corrosion resistance of glass, therefore GFS tanks can provide many advantages over standard epoxy or welded painted storage tanks. Glass-Fused-to-Steel technology is the premium coating technology in the storage tanks market, and GFS tanks are widely used in bio-energy, potable water storage, municipal sewage, landfill leachate, industrial wastewater treatment and other applications.

Enameling Technologies: 2C1F, 2C2F, 3C3F

Double Coating Layer Structure (2C2F)



Comparation of 3 enameling technologies

Enamel Coating	2C1F (2 coating 1 firing)	2C2F (2 coating 2 firing)	3C3F (3 coating 3 firing)
Application	Agriculture water Fire water storage Drinking water storage Sludge tank AD tank (liquid area) Filter tank, dry bulk storage Temporary storage (open roof)	Industrial wastewater Treatment Sea water Landfill leachate AD tank (gas area) Municipal sludge treatment (with roof)	Special application Irritant waste water treatment Chemical industrial wastewater High temperature application
PH	3-10	2-10	2-11
Coating thickness	210-430um	240-460um	270-480um
Test method	Holiday test	holiday test	Holiday test
Testing voltage	900V	1500V	1500V
Tank color	Black blue	Black blue, Dark green Other customized colors	Black blue, Dark green Other customized colors

Properties of Center Enamel GFS Tanks

Coating Color	Black blue, Grey olive, Forest green, Cobalt blue, Desert tan etc.	
Coating thickness	10- 18 mils, 230-480 microns	
Acid and alkalinity proof	Standard PH: 3~11, Special PH:1~14	
Adhesion	5,000 psi	
Hardness	6.0 (Mohs)	
Service life	≥30 Years	
Holiday test	> 900V / 1500V	
Permeability	Gas liquid impermeable	
Easy to clean	Smooth, glossy, inert, anti-adhesion	
Corrosion resistance	Excellent, suitable for wastewater, salt water, sea water, high sulfur crude oil, salt fog organic and inorganic compounds	

















Blue Light Grey Da

Dark Green

Tan

Forest Green

White

Cobalt Blue

Why choose Glass-Fused-to-Steel ?

GFS Tanks Advantages:

- Short Installation Time: prefabricated, rapid and simple
- Low Capital Investment: very low maintenance cost
- 30 Years Service Life: superior corrosion resistance
- Attractive Appearance: color can be customized
- Quality Control: according to international standards
- Flexibility: re-model, extend, dismantle and relocate



Main Production Steps of GFS Tanks











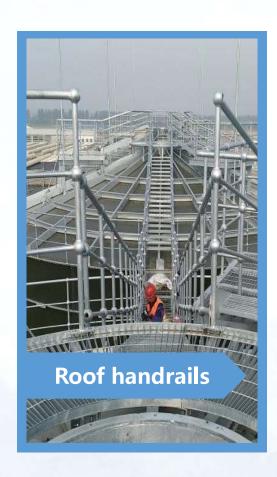




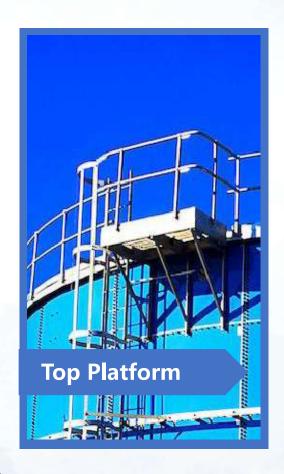
Main Accessories of Tanks



HDG / Stainless steel / Epoxy Monkey ladder/ Spiral staircase



Partial guardrail/ perimeter guardrail



With handrail & kickboard



HDG/ SS/ Epoxy Coating

Quality Control

Raw Material Test: raw materials ingredient analysis, impurity test etc.

Enamel Formula Test: enamel fluidity test, acid and alkali resistance test, adherence / impact test **Inspection During Production:** magnify experiment simulated operation environment

Final Quality Test: impact test, 1500V/1100V holiday test, coating thickness, color difference test

Acid and Alkali Resistance Test











Enamel Thickness Test

Adherence Test

Packages and Container Loading



Small items

Small items such as bolts, nuts are packaged in wood pallet, then wrapped with plastic film



Enamel sheet

Enamel sheets are well packaged in wood pallet with max. weight limitation 4T







Container Loading

Enamel sheet pallet in the middle, long items such as raftters at left/right sides, light items on top of wood pallet





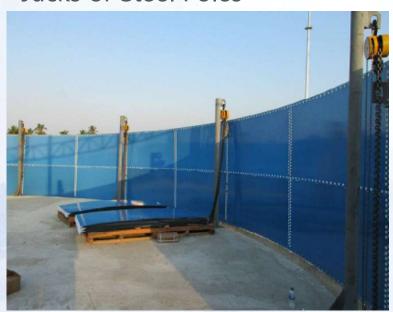
GFS Tanks Installation

GFS Tanks Foundation Types:

- 1 Embedded bottom ring
- 2 Starter ring
- 3 Above floor
- 4 Enamel floor

Main Installation Tools:

- Jacks or Steel Poles













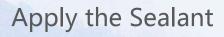






GFS Tanks Installation







Install the top ring

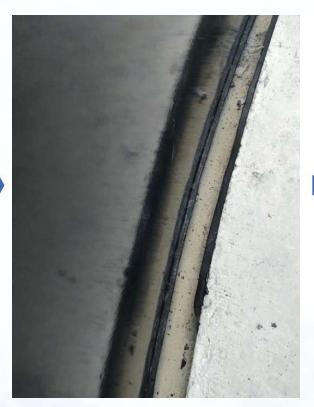


Lifting up top ring

GFS Tanks Installation



Install the base angles



Water-expanding sealant

••••



Waterproof sealant



C28/35 Protective Layer



