We also have operations in Dubai-UAE and Doha-Qatar

Visit Our Website: www.sohargalvanizing.com
THE COMPANY

Sohar Galvanizing & Steel Industries LLC (SGSI) commenced its operations from June 2013. It is a joint venture between Qatar Galvanizing WLL (Almana Group), Doha, Qatar and Multitech LLC (Suhail Bahwan Group), Sultanate of Oman. SGSI aims to provide high quality and professional Hot Dip Galvanizing services to the Sultanate of Oman and nearby areas. The Management team with over 25 years of hot dip galvanizing experience aims to achieve this through a set quality system which is already in place and by making sure to comply with the specifications as well as client requirements for specific projects. Our aim is to provide top class service unmatched till date in Oman market, on time deliveries and competitive pricing.

GALVANIZING

The importance of galvanizing as a cost effective method of corrosion protection for steel, has grown steadily over the years, ever since its utility was first noticed over 150 years ago, in the protection of corrugated iron sheets. Despite the stiff market competition it faces, its ability to grow is a shining tribute to the simplicity of the process and its unique advantages. Being a versatile process, articles ranging in size from nuts & bolts to long structural sections can be galvanized.

Relevant International Standards are as follows:-

2. ASTM – A 123 – Zinc Coating on Iron and Steel products.
3. ASTM – A 153 – Zinc Coating on Steel Hardware.
5. ISO 1460 – Hot Dip Galvanized coating on ferrous material.
7. ASTM – 143 – Safeguard against embrittlement in hot dip galvanizing.
9. ASTM 780 – Repair of damaged and uncoated areas of Hot Dip Galvanized coating.
10. ASTM 376 – Measuring coating thickness by magnetic field.
14. SSPC – SP10 Degree of cleanliness.

B. Zinc coating requirements are generally 610 gms / m² or 85.4 microns average for steel thickness above 6 mm. Zinc coating of 700 gms / m² or 1000 gms / m² are often recommended for saline weather conditions.

C. 1 gm / m² = 0.14 microns / 1 micron = 7.14 gms / m²
DESIGNING ARTICLES FOR GALVANIZING

The key to obtaining the best results from the galvanizing process depends largely on timely consultation between the galvanizer, fabricator and designer. Quality of the coating can also be improved by matching design features that aids the access and drainage of molten Zinc. Good design requires proper means for the access and drainage of molten Zinc and for escape of gases from internal compartments (Air Venting).

MAIN FEATURES

SGSI offers a broad range of galvanizing covering a wide range of applications. With its excellent corrosion resistant properties combined with very strong adhesion to the base steel, galvanizing is recommended as a surface protection coating system in wide range of applications from construction industry, lifestyle buildings, bridges, stadia, aircraft hangers, street furniture (lighting poles, sign posts, guardrails), shipyards, oil and gas installations, power generation and distribution, etc.

Some of the key features of our facility are:

- Annual Capacity of 60,000 tons.
- Kettle of size 12.5M (L) x 1.3M/1.5M (W) x 2M (D)
- A single piece of 18M and 5 tons can be galvanized.
- Fully automated temperature control of Zinc bath.
- Fully enclosed kettle and white fume extraction system.
- State of art materials handling system in the plant.
- 100% tracking of all the materials right from receiving inspection to final inspection and dispatch.
- Documented Quality Management System i.e. ISO 9001: 2008 certified by TÜV SÜD
- Customized, project specific Inspection and Test Plans.
PLANT CAPACITY

SGSI operates galvanizing facility at their state of the art galvanizing facility in Sohar Industrial Area - Phase V. The plant is capable of galvanizing 200 tons per day of Structural Steel. The facility includes kettle of size 12.5M (L) x 1.3M/1.5M (W) x 2M (D), holding more than 220 tons of Molten Zinc at 450 °C.

GALVANIZING BENEFITS

As a method of corrosion protection, hot dip galvanizing has many benefits namely:-

- Provide steel with a coating which has a long, predictable and maintenance free life.
- Be highly competitive on a first cost basis.
- Be economical as it protects steel over long periods.
- Be a sustainable solution — zinc is essential to life.

Its unique nature provides a tough and abrasion resistant coating that means reduced site damage and speedy erection of structures. It also protects steel by barrier and sacrificial action, on damage. At the point of damage, only the zinc corrodes and those deposits form a protective cover stopping further corrosion. On the contrary, with paint coatings, once the damage occurs, additional protection would have to be applied immediately or the steel would rust leading to break down of the whole coating as rust creeps underneath the paint film.

QUALITY SYSTEM

In an age, where success is measured in terms of quality awareness, we go the extra yard in ensuring that it is a way of life to us. Compliance with environmental regulations and guidelines and strict quality control standards have helped us gain ISO 9001:2008 certification. That indeed is our most cherished achievement, one that motivates us to get better each time, every time. A test certificate is issued for every piece of steel, galvanized or processed. In addition, an effective system of tracking and traceability is in place which ensures smooth and timely delivery to our customer.

CERTIFICATE

The Certification body of TUV SUD Management Service GmbH certifies that

SOHAR GALVANIZING AND STEEL INDUSTRIES LLC
P.O.Box 117, P.C. 122, Fanja Al Bawsh, Post Rd 506/501 R, Phase- V,
Opposite to Vikarco, Sohar Industrial Estate
Sohar, Directorate of Cinema,
has established and applies a Quality Management System for

Production of

Hot Dip Galvanizing Services,
Surface Treatments and Coating Services

An audit was performed, Report No. 701556538

The requirements according to
ISO 9001:2008

are fulfilled. The certificate is valid from 2013-11-11 until 2016-11-10
Certificate Registration No. 62 103 4038 TMD

Authorized Signatory

Pratik Trivedi

TUV SUD Management Service GmbH

ISO 9001:2008 Certified

(2011-11-11)
HOT DIP GALVANIZING PROCESS

STEEL SHOTS / GARNETS BLASTING TO GIVE A PROFILE OF 45 – 70 MICRONS AND OBTAIN SURFACE FINISH OF SA2.5

ACIDIC DEGREASING AT AMBIENT TEMPERATURE FOR HEAVILY GREASED AND PAINTED ITEMS TO REMOVE GREASE AND PAINTS

PICKLING IN 10 – 17% HCL AT AMBIENT TEMPERATURE TO REMOVE MILL SCALE, RUST AND OTHER OXIDES

RINSING IN WATER AT AMBIENT TEMPERATURE TO WASH OFF ACID

FLUXING IN ZINC AMMONIUM CHLORIDE AT AMBIENT TEMPERATURE TO CONDITION THE STEEL SURFACE TO ENSURE REACTION BETWEEN STEEL SURFACE AND ZINC

DRYING IN HOT PIT AT TEMPERATURE BETWEEN 65 – 80° C

HOT DIP GALVANIZING IN ZINC KETTLE AT 455° C

QUENCHING IN WATER AT AMBIENT TEMPERATURE

INSPECTION, DRESSING AND PACKING