

Glass Fiber Reinforced Epoxy (GRE) Pipe system, solution for the water and energy, to the world in the most efficient and sustainable way



GRE inspection and monitoring from Orbit International Survey Services LLC

Welcome to Orbit International Survey Services LLC in the Middle east and Asia's leader in Quality Assurance to a manufacturing of composite large diameter fiberglass pipe system.

Orbit offers bespoke Glass Fiber Reinforced Epoxy (GRE) pipe system verification solutions for the water, Oil & Gas and industrial sectors. Through its pioneering use of fiberglass inspection technique, service excellence and product technologies, ORBIT is an Inspection pioneer in the conversion of steel pipe into fiberglass.

With the largest portfolio of high-temperature, high-pressure, anti-corrosive, composite large-diameter fiberglass pipes in the world, GRE pipe manufacturer with ORBIT offers comprehensive range of products Testing and services including; projects management, technical support and in-house, on-site training.

Why use welding inspection and monitoring from ORBIT?

All products verification by ORBIT is in accordance with stringent customer specifications and the most demanding international standards, using the latest technology,

ORBIT Inspection company and testing offers the largest and most versatile large diameter fiberglass pipe product range in the market today. With diameters ranging from 12mm up to 4000mm, with an ability to withstand immense pressures of up to 3000 PSI, fiberglass-composite non-corrosive pipe systems can transport water, oil, gas and petrochemicals including H2S.

PURPOSE

ORBIT's excellence has led to an impressive list of accreditations and certifications by major independent international bodies in the fields of safety, quality and environmental protection. ORBIT a testing and Inspection company in the Middle East to be awarded the ISO 9001-2015 Quality certification accreditation which is most frequently used to identify products where quality Management system is paramount.

OPERATION AND APPLICATIONS:-

Managing a unique global delivery model, driven by consulting excellence, and committed to customer needs, GRE Pipes manufacturing and its inspection purpose is to assist the energy sector in the most efficient and sustainable way



Visual inspection

GRE inspection and training

- Becoming the preferred supplier to all of our key customers – we know what they want and we are easy to do business with.
- Being at the forefront of technology & service innovation in Composite Pipe products.
- Investing in building the people capabilities needed to win.
- Playing our role as a responsible corporate in all we do.



Dimensional inspection

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OUR SERVICES

We are one of the prominent company which established its roots in following the above related activities in water, oil and gas sections.

Quality Check the condition of containers, **the** crates, boxes and pallets must be Check on possible damage upon arrival. If damage has occurred to any material package, the contents might be damaged too. Check pipes and fittings on impact damage. Materials and tooling must be dry at arrival. The damaged state of materials and/or products when delivered must be reported and documented (with pictures). Damaged materials shall be separated and **quarantined** from undamaged materials to avoid unintentional use.

Check Delivered Quantities and **report** on the packaging list. The recipient is advised to check the contents of the deliveries. Quantity, size and configuration of materials and products should be physically checked against the data on the packing list.

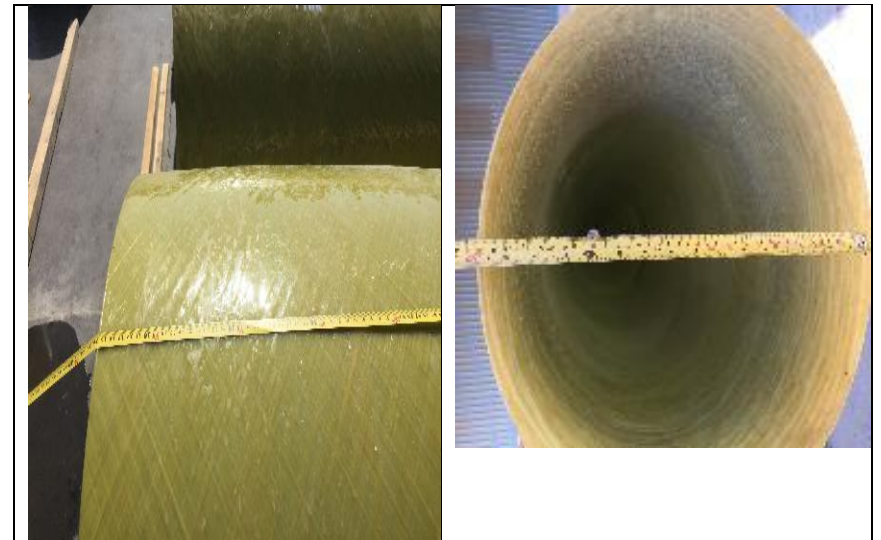
Periodic technical inspection:-

- Material inspection
- MTC review and endorsement
- Consumable verification
- Calibration verification of all testing equipment and machines.
- Monitoring all the activities and variable which affect the properties of sound production

Testing process:-

- Pipe Stiffness & Deflection Test
- Loss-on-ignition test
- Axial Tensile Strength of Pipe
- Resin Gel Time, Cure Time and Peak
- Hoop Tensile Strength of Pipe
- Degree of curing of Pipes
- DSC Method - Glass transition temperature

- Dimensional Control As per relevant drawings
- Short Term Hydraulic Failure Pressure
- Inspection Release Certificate



Final release inspection