



HSE REQUIREMENTS FOR FIBERGLASS



HSE requirement to industrial activities for Fiberglass

It is an industrial process in which the mold is lined from the inside by the fiberglass and then the external structure is placed and the outer layer is multiplied by the fiberglass where the structure is characterized by strength and fiber glass gives it water insulation and smoothness of formation.

In addition to adhering to the general requirements of environmental, the following requirements must be met the:

Location and area:

- The site must be within the industrial areas area of at least 200 square meters.
- The shape of the facility is a walled area with closed inches and open spaces

The safety and internal environment of the facility:

- Providing a certificate of compliance from the civil defense
- The various signs and warning signs should be attached in clear places to all those working in Arabic and English languages and in any appropriate language when required.
- All machinery and equipment must be subject to periodic inspection and replacement of any damaged part.
- Protect the surface of the earth in all areas constructed with concrete or other chemicals to reduce the leakage of potential pollutants into the ground and groundwater.
- To store all chemicals in a well-ventilated and heat-suited area to cover the surfaces of the facility with non-executed materials.
- Covering the roofs of the facility with non-executed materials.
- Reducing emissions of volatile organic vehicles resulting from the fiberglass industry by:
 - ✓ The use of raw materials with low content of cSP and/or by switching to non-fragmentation methods and applying resin.
 - ✓ In this way, the amount of organic volatile vehicles produced by these facilities can be reduced without the need to change the equipment or stages of operation of the facility, reducing the emissions of flying organic vehicles from tanks or drums used for mixing materials by closing these containers with properly suited covers during mixing operations.
 - ✓ These covers can be modified with vents to allow mixing and pumping equipment, but

these vents can also be closed to reduce emissions of co-pilots. Reduce co2 emissions from cleaning materials using water-based cleaning materials with low content of volatile organic compounds, and/or the use of low-pressure organic solvents.

- Use PPE for workers in this work
- Ensure that cleaning materials, pipettes and others are secured to deal with spills immediately.
- Installation of fire and smoke sensors and alarm system at the facility
- Design and build a rainwater management system that includes drainage system and assembly tanks with the following:
 - ✓ Analysis of the quality of the water reservoirs before they are discharged or reused using a registered laboratory and submit the results of the analysis to HSE department.
 - ✓ Treatment of collected water before discharge if it does not comply with the recommended standards applicable in the UNITED Arab Emirates.
 - ✓ Treatment of washing water and sewage produced during the plant's working phases before discharge or reuse

Environmental studies and necessary measurements:

- Submission of an Environmental Impact Assessment Study (EIA) for projects with an area of more than 150 square meters through the environmental companies accredited by the Health, Safety and Environment Department.
- It is not permissible to practice the activity before the approval of the environmental impact assessment study of the facility.
- Regular samples of solid and liquid wastes resulting from industrial activity are taken periodically and examined at the Environmental Laboratory of the Municipality of Ajman. Measurements of pollutants (based on the requirements of Federal Law No. 24/1999) are made periodically at the site (internal and external environment) by companies approved by the Health, Safety and Environment Administration.

Environmental management is a shared responsibility:

- The management of the industrial facility should carry out self-monitoring of the environment aspects of the facility, and to ascertain the environmental indicators and the extent of their change periodically.
- In the event of any expansions, addition of any new industrial activity or change of any industrial process, the Department of Special Facilities and Services - Department of Health and Environment - should be informed to assist in the technical aspects of environmental purposes. If any adverse environmental indicators are observed in the internal or external environment of the facility,

- The Department of Health, Safety and Environment is notified to assist in assessing the status of the indicator and developing appropriate technical solutions.

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