

## **IS 11246: 1992 Glass Fibre Reinforced Polyester Resin (GRP) Squatting Pans- Specifications**

Glass Fibre Reinforced Polyester Resin (GRP) squatting pans are a durable and lightweight solution often used in restroom facilities, especially in areas with high usage or outdoor settings. These squatting pans are created by reinforcing polyester resin with glass fibers, giving them excellent durability, resistance to corrosion, and resistance to cracking under pressure.

Glass Fibre Reinforced Polyester Resin (GRP) squatting pans offer impressive strength, durability, lightweight construction, and corrosion resistance. Known for their thermal stability and low maintenance requirements, GRP squatting pans are a cost-effective alternative to traditional materials. Their lightweight nature also means lower transportation and installation costs, contributing to a smaller carbon footprint and making them a more eco-friendlier option.

Thanks to these advantages, GRP squatting pans are ideal for:

- **Public restrooms** in parks and recreational areas
- **Portable toilets** at outdoor events
- **Restrooms in high-moisture environments**, such as beaches
- **Facilities requiring easy transport and installation**, like construction sites

BIS initially published **IS 11246** for Glass Fibre Reinforced Polyester Resin (GRP) Squatting Pans in 1985, with a revision in 1992 to update tolerances and dimensions. The standard was reaffirmed in 2007.

This specification covers materials and manufacturing techniques, as well as performance requirements and testing methods for GRP squatting pans. Tests include assessments for **warpage, impact resistance, crazing, water absorption, and resistance to hydrochloric and uric acids**, as well as evaluations of **hardness, scratch resistance, and physical characteristics like dimensions and mass**.

In summary, IS 11246 ensures that GRP squatting pans meet the necessary quality and durability standards for various demanding applications.