

## **IS 16709 : 2017 Textiles — Polypropylene (PP) Woven, Laminated, Block Bottom Valve Sacks for Packaging of 50 kg Cement — Specification**

Block bottom valve sacks are ideal for cement packaging due to their stability, durability, and efficiency. The block bottom design allows for easy stacking and prevents toppling, while the valve enables quick, dust-free filling and sealing, reducing spillage and keeping the work environment clean. Block bottom valve sacks made from woven polypropylene resist tearing, protecting the cement during transport and are also moisture-resistant, preserving product quality. Overall, these sacks offer a reliable, space-efficient, and eco-friendly solution, enhancing safety and convenience in cement handling.

The Indian Standard IS 16709 published by BIS in the year 2017 to prescribes the requirement of block bottom valve sacks made from PP woven laminated fabric for packaging, storage and distribution of 50 kg cement. This standard specifies the constructional requirements such as dimensions, ends per decimetre, picks per dm and fabric GSM etc. along with the performance requirements like fabric breaking strength, elongation at break, weld strength, drop impact strength, ash content and air permeability along with their test methods described in Annexures. It also specifies the marking, sampling and packing criteria for PP block bottom valve sacks used in cement packaging. This standard has been amended subsequently in 2021 and 2023 to modify the requirements of Fabric GSM and Air permeability in PP block bottom valve sacks for packaging of 50 kg of cements.

Recognizing the importance of Quality aspects in PP block bottom sacks in cement packaging, Government of India has issued a Quality Control Order to propose mandate BIS certification for polypropylene (PP) woven, laminated, block bottom valve sacks for packaging of 50 kg cement in compliance with IS 16709 to be effective from December 2024."