

## **IS 5035 : 1969 Sterilizers, Bowl and Utensil (Pedal Type)**

Pedal-operated sterilizers, bowls, and utensils enhance hygiene by enabling hands-free operation, crucial in healthcare, labs, and food industries. They prevent contamination by minimizing hand contact, ensuring sterility in critical processes. They promote safety, efficiency, and convenience in sterile environments, safeguarding patients, research accuracy, and food quality standards.

This standard specifies the structural, functional, and safety requirements for pedal-operated boiling sterilizers used to sterilize bowls and utensils in clinics and hospitals, excluding those used near anesthetic gases. The sterilizer comprises a shell with a pedal-operated lid, powered by electricity, steam, gas, or kerosene. These should be constructed using durable materials like stainless steel (1.25 mm thick, 04Cr19Ni9 grade), brass, or copper sheets (2 mm thick), that ensures corrosion resistance and long-term reliability. The shell and lid should be joined using argon-arc welding, brazing, or folding and soldering, with smooth radiused corners (minimum 13 mm) to prevent dirt accumulation and ensure ease of cleaning.

The lid, shall equipped with flaps to contain condensation, opening to a precise angle of 80°–85° with single or multiple pedal presses. A perforated tray, designed for easy lifting and lowering, securely holds bowls and utensils above water when the lid is open. The tray and lid materials match the shell, maintaining structural integrity under load. The stand should be robustly built to withstand handling and transit, ensures stability with adjustable height and fittings for pedal operation, maintaining a convenient working height of at least 1070 mm.

Sterilizers should have controlled water management, insulated handles, safety cut-offs, and pressure-tested components for prolonged use with steam, gas, or kerosene. Stainless steel has a satin finish, brass is chromium-plated, and painted surfaces are anti-corrosion treated. Each item should include markings for traceability and a detailed manual for installation, operation, and maintenance.