

Indian Standard IS 17568:2021: Your Guide to Safe and High-Quality Thermal Paper

Thermal paper is a special paper type that is manufactured with specialty coating that aids in inkless printing. On application of heat to the coating, a clear image is formed on the paper with no requirement for ribbons or inks. The **coating** usually turns black on heating, which, in turn, transfers the image to the paper. Thermal paper is the key component of thermal paper printing, which is considered one of the most economical printing technologies owing to its low energy consumption and low maintenance cost.

Thermal paper is widely used in applications such as **receipts, tickets, labels**, and point-of-sale systems. Ensuring the quality, durability, and safety of thermal paper is critical for its performance and suitability in various industries. Indian Standard **IS 17568:2021**, developed by the Bureau of Indian Standards (BIS), specifies the requirements for thermal paper to ensure consistent quality and safety across all its applications.

Key Features of IS 17568:2021:

- 1. Performance and Printability:**
The standard ensures that thermal paper provides sharp and durable prints with excellent sensitivity to heat, delivering clear and legible results in all operating environments.
- 2. Durability:**
IS 17568:2021 specifies requirements for image stability and resistance to fading or discoloration over time, ensuring that critical information on the paper remains intact.
- 3. Physical Properties:**
The standard defines essential parameters like thickness, grammage, and coating uniformity, ensuring the paper is suitable for high-speed printers and other demanding uses.
- 4. Chemical Safety:**
To protect users and the environment, the standard limits the presence of harmful chemicals such as Bisphenol A (BPA), ensuring the thermal paper is safe for handling and meets environmental regulations.
- 5. Testing and Quality Assurance:**
The standard mandates rigorous testing for print quality, durability, and chemical composition to ensure compliance with performance and safety requirements.

Why IS 17568:2021 Matters:

Compliance with IS 17568:2021 guarantees that thermal paper meets stringent quality and safety standards, providing superior performance and reliability. Whether for retail, banking, or logistics, high-quality thermal paper ensures uninterrupted operations and clear, durable prints.

In Summary: When purchasing thermal paper, always look for the BIS Standard Mark to ensure compliance with **IS 17568:2021**. This assures you of a product that is safe, durable, and capable of delivering high-quality performance, meeting the needs of modern business and industry.