



## **IS 8748:2023 – Forged/ Rolled CTC Segments – Specification**

This Indian Standard, **IS 8748:2023**, prescribes the requirements for forged and rolled segments used in **Crush, Tear, and Curl (CTC) machines** within the tea industry. CTC segments play a crucial role in processing tea leaves by ensuring consistent quality and flavor. This standard covers essential technical specifications such as chemical composition, mechanical properties, dimensional tolerances, and freedom from defects to maintain the reliability and performance of CTC segments.

The 2023 revision introduces significant updates, including flexibility in machining methods and chemical testing. Manufacturers are now permitted to use any established instrumental or chemical analysis method for assessing the material's chemical composition. This approach allows **greater adaptability** in manufacturing while ensuring compliance with quality standards. Additionally, the revision removes prescriptive clauses regarding the sequence of machining operations, allowing manufacturers the discretion to select suitable methods as per their production needs. These changes modernize the standard to reflect advancements in manufacturing practices and testing techniques.

IS 8748:2023 also defines sampling and testing procedures, ensuring that segments meet stringent quality standards. Tests cover parameters such as **tensile strength, hardness, and elongation** to ensure that segments can withstand operational demands. Detailed guidelines for marking and packing segments provide traceability and facilitate product identification.

By aligning **IS 8748:2023** with current industrial practices, this standard supports the production of high-quality CTC segments essential for the tea industry. It enhances the segments' **durability, minimizes contamination risks**, and meets industry demands for **flexibility** and **efficiency** in production. This revision ultimately contributes to better-standardized products and supports the Indian tea industry's competitiveness on a global scale.