



13.Tin can Inspection

1. Objective:

To ensure that empty tin cans meet specified quality standards for dimension, seam integrity, lacquer coating, and overall suitability for food contact.

2. Parameters to Check:

S. No.	PARAMETER	METHOD / INSTRUMENT
1	Dimension	Vernier Calliper
2	Internal Lacquer	Visual
3	Internal Strip Coating	Visual
4	End Plate Thickness (EPT)	Micrometre
5	Body Plate Thickness (BPT)	Micrometre
6	Seam Thickness (T)	Micrometre / Teardown
7	Seam Width	Vernier Calliper
8	Seam Length	Vernier Calliper
9	Countersink	Micrometre
10	Body Hook (BH)	Vernier Calliper
11	Cover Hook (CH)	Vernier Calliper
12	Tightness Rating	Leak Test (Water Bath)
13	Overlap (OL)	<i>Overlap = (Body Hook + Cover Hook) – Seam Thickness + End Plate Thickness</i>
14	AOL (Actual Overlap Length)	Seam Analyzer
15	Wrinkle Rating	Visual
16	Body Hook Butting	<i>BHB % = (Body Hook Length / Seam Length) * 100</i>



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Doc No : HTPL-SOP13

Food Safety and Quality Management System

Issue/Rev : 1.0

Lab Test Procedure SOP

Date : 19.09.2022

3. Inspection Procedure:

- Randomly collect **5 cans** per 1000 pcs in the incoming lot.
- Inspect internal surface for lacquer coverage & pinholes.
- Measure EPT and BPT using micrometre at multiple points.
- Perform teardown of 1–2 cans to measure seam components (BH, CH, OL, AOL).
- Visually inspect for wrinkle, dent, rust, or uneven seam formation.
- Conduct leak tests on random samples.
- Record all findings in the Tin Can Inspection Log Sheet.

4. Acceptance Criteria:

- Seam values within tolerance of the specification.
- Lacquer coating must be continuous, defect-free.
- Tightness must pass the leak test.
- Wrinkle rating should not exceed accepted limit.