

Reference Material (RM) Information Sheet

RM Name	: Formaldehyde in Textile
RM Code	: TFOR-2212A
Matrix Type / Color	: Viscose Fabric / Pink
Reference Material Producer	: TexEcoRM – Textile Ecological Reference Materials (Owner: Özkan ANIK) Atakent Mah. Küçükçekmece / İSTANBUL / TÜRKİYE Özkan ANIK / +90 544 6525684
Date of Issue	: 21.02.2024
Validity	: 2 years from the latest characterization date.
Notice	: This document relates to a Reference Material (RM). It is not a Certified Reference Material (CRM) and measurement uncertainty is not stated. Reported values are indicative and provided for information / IQC purposes.
Assigned Value	: The indicative values are in the table below.

Technical Information and Property Values

Measured Property ^[1]	Indicative Value (mg/kg) ^[2]	Indicative Standard Deviation (mg/kg) ^[3]
Formaldehyde CAS NO : 50-00-0	85,6	6,6

[1] Represents **formaldehyde content** determined by ISO 14184-1.

[2] [3] **Assignment Methodology** : The indicative value and the indicative standard deviation were both calculated using Algorithm A (robust mean and robust standard deviation) in accordance with ISO 13528, from 30 laboratory results. 1 result out of 31 (was excluded as an outlier — flagged by the Grubbs test ($\alpha = 0.05$) and confirmed by technical investigation), and the value was assigned from the remaining 30.

Metrological Traceability : Based on laboratory measurements performed under the applicable standard method. Participating laboratories applied their own routine calibration procedures and traceable reference standards. The indicative value is derived from the interlaboratory characterisation study and is not certified.

Data basis: n = 30 laboratory results, after excluding 1 outlier from 31 reported (characterisation date range: Jan 2023 – Sep 2026).

Sales Date

Özkan ANIK
Owner of TexEcoRM

Quality Assurance and Material Integrity

Homogeneity

Homogeneity was evaluated through internal homogeneity checks performed on representative units of the batch. The material was post-processed (cut/mixed/sub-sampled) and re-tested after a defined period. The observed variability was considered sufficient for the intended use.

Storage Conditions

Store at room temperature in the original packaging, dry and protected from light. It can be stored in airtight containers. TexEcoRM cannot be held responsible for any changes to the material due to non-compliance with storage conditions and usage instructions.

Safety Instructions

Handle this material as a laboratory test specimen that may contain restricted substances. Wear appropriate PPE (lab coat, gloves, and eye protection) and follow your laboratory's standard safety procedures for sample handling, extraction, and waste disposal. Dispose of extracts and residues in accordance with local regulations.

Stability

Long-term stability under the specified storage conditions is supported by periodic monitoring (e.g., 3-monthly checks). Transport stability was also assessed to ensure no significant change during delivery.

The period of validity is supported by ongoing periodic monitoring; updated data are available upon request.

Intended Use

For internal quality control (IQC), method performance monitoring, training/verification, and as a control material for interlaboratory comparisons (PT/ILC) participants.

Usage note (IQC): Establish your own mean/SD (≥ 10 results) and use your in-house SD for control limits (± 2 SD warning, ± 3 SD action).

Limitation: Results may be method-dependent (e.g., extraction conditions and instrument setup).

Test Portion Requirements

Samples must be used in the quantity and manner specified in the applicable international standard(s). TexEcoRM is not responsible for use that deviates from these requirements.