



DRAFT INDIAN STANDARD IN WIDE CIRCULATION

Reference : 25861

Date : 23 June 2024

TECHNICAL COMMITTEE : Chemical Methods of Test, TXD 05

To,

All concerned

Dear Madam/Sir,

The following document has been prepared by the Chemical Methods of Test Sectional Committee, TXD 05. Please [click here](#) to view the document.

Document Number : TXD 05 (25861) WC

Title of the document : Textiles Test method for accelerated hydrolysis of textile materials and biodegradation under controlled composting conditions of the resulting hydrolysate

Document Type : New Indian Standard

This document has following salient features which may require specific attention for your valuable comments:

1) The test method determines the ultimate biodegradability of test material after accelerated hydrolysis under conditions simulating an intensive aerobic composting process. It aims to determine the ultimate biodegradability of the hydrolysate by using a small-scale reactor. The degradation rate is periodically measured by determining the amount of the evolved carbon dioxide using gas chromatography. Firstly, the test material is hydrolysed under the constant temperature and humidity until the substantial loss of molecular weight in order to initiate the biodegradation process shortly. During the aerobic biodegradation of the hydrolysate, carbon dioxide, water, mineral salts and new microbial cellular constituents (biomass) are the ultimate biodegradation products. The carbon dioxide produced is continuously monitored, or measured at regular intervals, in test and blank vessels to determine the cumulative carbon dioxide production. The percentage biodegradation is

Please examine the document and share your comments regarding further improvement in the document.

Last date for sharing the comments is : 23 July 2024

The comments should be shared in the prescribed template through this portal only; and the comments so received shall be taken up by the Sectional Committee for necessary action. For any other query, please write an email at txd@bis.gov.in to the undersigned at Bureau of Indian Standard, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi.

In case no comments are received, we would presume your approval of the documents. However, in case we receive any comments on the document, the same shall be put up to the Sectional Committee for necessary action.

Thanking You,

**Yours faithfully,
(Jitender Kumar Gupta)
Head (Textiles Department)
Email: txd@bis.gov.in**



व्यापक परिचालन में मसौदा(दे)

हमारा सन्दर्भ : 25861

दिनांक : 23-06-2024

तकनीकी समिति : Chemical Methods of Test Sectional Committee, TXD 05

प्राप्तकर्ता : रूचि रखने वाले सभी निकाय

महोदय/या,

निम्नलिखित मसौदा तैयार किया गया है :

प्रलेख संख्या : TXD 05 (25861) WC

शीर्षक :

कृपया इस/इन मानक(को)/संशोधन(नो) के मसौदे(दो) का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजें कि यदि ये मानक(को) के संशोधन(नो) के रूप में प्रकाशित हो तो इन पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयां आ सकती हैं।

सम्मतियाँ भेजने की अंतिम तिथि : 23 July 2024

सम्मतियाँ, यदि कोई हों तो, कृपया यहाँ क्लिक करके ऑनलाइन पोर्टल के माध्यम से ऊपर दी गयी अंतिम तिथि तक दर्ज कराएं।

यह/ये प्रलेख भारतीय मानक ब्यूरो की वेबसाइट www.bis.gov.in पर भी उपलब्ध है/हैं।

धन्यवाद।

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