



Rubber, raw solid natural and synthetic — General guidance on storage

Caoutchouc brut, solide, naturel et synthétique — Guide pour le stockage

In 1979, Technical Committee ISO/TC 45, *Rubber and rubber products*, agreed to progress a request by the Netherlands to issue a document which would be a guide to the storage of synthetic rubber. The subject was then considered by Working group 3, *Raw materials for use in the rubber industry*, of TC 45 and agreement reached that a draft proposal be prepared to include both synthetic rubber and natural rubber. The draft was subsequently balloted within TC 45. The comments were examined by WG3 and there was unanimous agreement with the comment from France that the document should become a Technical Report rather than an International Standard. After amendment, as a result of the comments received, TC 45 approved the issue of the document as a Type 3 technical Report.

0 Introduction

Under unfavourable storage conditions, all types of raw rubber change more or less in physical and/or chemical properties. Ultimately they may become unserviceable, for example because of hardening, softening, surface degradation, discoloration, etc., resulting in a different behaviour during processing and/or differences in properties of the vulcanizates.

These changes may be result of one particular factor or a combination of factors, mainly the action of oxygen, light, temperature and humidity. The deleterious effects of these factors may, however, be minimized by an appropriate choice of storage conditions. This Technical Report, therefore, indicates the most suitable conditions for storage.

1 Scope and field of application

This Technical Report provides information on the most suitable conditions for the storage of raw natural and synthetic rubber delivered in the form of bales.

For rubber delivered in the form of powder, loose crumb or pellets, extra care should be taken because of the far greater exposed surface area. In addition, "particulated" rubber can agglomerate under the influence of elevated temperature and/or pressure.

UDC 678.032 : 678.019.396

Ref. No. ISO/TR 7664-1984 (E)

Descriptors : rubber, natural rubber, synthetic rubber, storage, generalities.

© International Organization for Standardization, 1984 •

Printed in Switzerland

Price based on 2 pages