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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 220

METHOPLOF SAMPLING RAW COTTON FOR TESTING (standards.iteh.ai)

ISO/R 220:1961 Ist EDITION https://standards.iteh.ai/catalog/standards/sist/3910c042-075a-4de8-bd49b05e5299Deccember_1961

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BRIEF HISTORY

The ISO Recommendation R 220, *Method of Sampling Raw Cotton for Testing*, was drawn up by Technical Committee ISO/TC 38, *Textiles*, the Secretariat of which is held by the British Standards Institution (B.S.I.).

Work on this question by the Technical Committee began in 1948 and led, in 1958, to the adoption of a Draft ISO Recommendation.

In September 1958, this Draft ISO Recommendation (No. 224) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to some amendments, by the following Member Bodies:

Australia	Israel	Spain		
Belgium	Italy	Sweden		
Canada iTeh	ST Japan NDAR	DDD Switzerland		
Czechoslovakia	THOTWAY	0.0.11.		
Denmark	(SPolandards Portugal	iteh ai) U.S.S.R.		
France	Portugal			
Hungary	Republic of South	Africa		
Five Member Bodies opposed the approval of the Draft loc042-075a-4de8-bd49-				
b05e52992377/iso-r-220-1961 Germany, India, Netherlands, Romania, United Kingdom.				

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in December 1961, to accept it as an ISO RECOMMENDATION.

ISO F	Recommendation	R 220	December 1961		
	METHOD OF SAMPLING RAW COTTON FOR TESTING				
	1. SCOPE				
1.1	A procedure is indicated for its various properties.	sampling raw cotton fibre	for the purpose of determining		
1.2	The various stages of sampling, intended to reduce the quantity of cotton to be handled at different levels of the bulk to be tested, are described.				
1.3	Special methods of sampling may be given in specifications or contracts for cotton, when the nature of the materials or other circumstances make them desirable.				
	2. DEFINITIONS				
2.1	Bulk source. One or more f (a) a bale, (b) a group of bales of one (c) a group of bales of a p (d) a group of bales from (e) a group of bales of a p	ndards.iteh.ai) evariety, part <u>icular grade₆₁</u> atalog/standards/sist/3910c042-0° a given area, 5c52992377/iso-r-220-1961	V I.E. VV 75a-4de8-bd49-		
2.2	Laboratory bulk sample. That portion of cotton taken from the bulk source in such a way as to ensure its representative character and to provide a quantity small enough to be handled with ease in the laboratory.				
2.3	· ·	ensure its representative cha	taken from the laboratory bulk racter and to provide a quantity s.		
2.4			the laboratory test sample which o determine a particular property.		
	3. PRINCIPLE				
from test as 1	m the laboratory bulk sample, a sample. Each of these stages	and one or more test specime is intended to reduce the qu veness of the bulk source o	A laboratory test sample is taken ens are taken from the laboratory antity of cotton, while preserving f cotton to be tested. All these nitted if this proves desirable.		

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4. LABORATORY BULK SAMPLE

The laboratory bulk sample should be taken in accordance with the requirements of contracts or in another way so that it should be duly representative.

Notes

- 1. To obtain a composite sample that will be small enough to be easily handled in the laboratory, it is suggested that a total of at least 100 g (4 oz) of cotton should be taken. Since the bulk source is usually heterogeneous as regards the properties of the fibres, it is very important that it should be represented as perfectly as possible in the laboratory bulk sample. To bring this about with the least possible alteration of fibre properties, carry out all the operations of extracting and preparing the sample with the most scrupulous care.
- 2. Representativeness is of very great importance with so variable a material as cotton. Too much time and effort can hardly ever be spent in securing representativeness throughout the sampling process.

5. LABORATORY TEST SAMPLE

- 5.1 The laboratory test sample should be prepared by a method which takes into consideration the test to be performed and the degree of accuracy desired.
 - 5.1.1 In general, fibre blending by a mechanical blender is preferable, particularly when the test specimen is small in size, as is the case in the flat-bundle strength test. However, in some cases, samples prepared by hand are adequate.
 - 5.1.2 When the laboratory bulk sample consists of tufts taken by cutting into the bales, cut fibres should not be included in the laboratory test sample.

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5.2 Mechanical blending (preferred method) (standards.iteh.ai)

- 5.2.1 The mechanical blender is designed to use a certain weight of fibres, e.g. up to 10 g $(\frac{1}{2} \text{ oz})$. ISO/R 220:1961
- 5.2.2 Spread out the laboratory bulk sample so that pinches can be taken from it at any point. Take small pinches of fibre from at least 32 different evenly spaced points in the laboratory bulk sample.
- 5.2.3 Perform a light drafting action on the pinches before feeding them into the mechanical blender, so as to form as uniform a sheet of fibre as possible. Blend the fibres with the blender so as to produce a practically homogeneous sample, taking care not to damage the fibres.

5.3 Manual methods

5.3.1 Different methods have been described in national standards. They are designed for different methods of test, e.g. "cut-squaring", making hand slivers and making small samples by successive halving and combining. In some cases, it is preferable to prepare test specimens direct from the laboratory bulk sample.

6. TEST SPECIMEN

Prepare the test specimen according to the procedure described in the appropriate method of test.