

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1121

LIST OF CHARACTERISTICS
WHICH MAY BE REQUIRED OF CONVEYOR BELTS
ACCORDING TO THEIR USE

1st EDITION
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BRIEF HISTORY

The ISO Recommendation R 1121, *List of characteristics which may be required of conveyor belts according to their use*, was drawn up by Technical Committee ISO/TC 41, *Pulleys and belts (including V-belts)*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question led to the adoption of a Draft ISO Recommendation.

In August 1968, this Draft ISO Recommendation (No. 1669) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Greece	South Africa, Rep. of
Austria	India	Spain
Belgium	Israel	Sweden
Czechoslovakia	Italy	Switzerland
Denmark	Korea, Rep. of	Thailand
Finland	Netherlands	Turkey
France	Norway	U.A.R.
Germany	Portugal	U.S.S.R.

Two Member Bodies opposed the approval of the Draft :

United Kingdom
U.S.A.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in September 1969, to accept it as an ISO RECOMMENDATION.

**LIST OF CHARACTERISTICS
WHICH MAY BE REQUIRED OF CONVEYOR BELTS
ACCORDING TO THEIR USE**

1. SCOPE

This ISO Recommendation lists the various characteristics which may be required of conveyor belts, according to their use.

This document, which should be taken only by way of a guide for the use of specifications writers, is intended to prevent a profusion of unnecessary or irrelevant requirements arising from the number of existing or future ISO Recommendations dealing with conveyor belt characteristics and methods of test.

2. TABLE OF CHARACTERISTICS

Characteristics	Methods of tests	Normal use	Mining and iron works	Elevators
In full thickness :				
– Breaking strength (longitudinal direction)	ISO/R 283	X	X	X
– Elongation under reference load*	ISO/R 283	X	X	X
– Breaking elongation	ISO/R 283		X	
– Strength of mechanical fastenings	ISO/R 1120	(1)	(1)	(1)
– Troughability	ISO/R 703	(2)	(2)	
– Flame resistance	ISO/R 340		(3)	
– Electrical conductivity	ISO/R 284		(4)	
Of the carcass :				
– Adhesion between plies	ISO/R 252	X	X	X
– Tear resistance (longitudinal direction)	ISO/R 505		X	
– Flame resistance	ISO/R 340		(5)	
Of covers :				
– Adhesion cover-ply	ISO/R 252	X	X	X

- (1) If the belt must be joined by mechanical fastening.
- (2) Except if the belt must be used flat (this test is unnecessary when the belt is manifestly flexible).
- (3) Only if the belt must be fire resistant.
- (4) Only if the belt must be conductive to charges of electricity.
- (5) Only if the carcass must be fire resistant.

* The elongation in the longitudinal direction can also be measured under the strength suitable to the rate of work when this is specified in the order.