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AS 1331—1974

UDC 621.867.2:678.066

Amended 1 July 1979.

Australian Standard 1331—1974

RUBBER CONVEYOR AND ELEVATOR BELTING OF PLY CONSTRUCTION FOR GENERAL APPLICATION

METRIC UNITS



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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Australasian Institute of Mining and Metallurgy
Australian-British Trade Association
Australian Coal Industry Research Laboratories
Departments of Mines
Grain Elevators Board of New South Wales
State Electricity Commission of Victoria
The Institution of Engineers, Australia

This standard, prepared by Committee RU/2, Conveyor and Elevator Belting, was approved on behalf of the Council of the Standards Association of Australia on 19 December 1973.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No 1

to

AS 1331—1974

RUBBER CONVEYOR AND ELEVATOR BELTING OF PLY
CONSTRUCTION FOR GENERAL APPLICATION

SUMMARY: The following sections of the standard are covered by this amendment: Contents, Clause 4.5 and Table 7.

Page 3. Contents.

Delete Table 7 entry and substitute:

Table 7(a) Values of Cover and Ply Adhesion

Table 7(b) Values of Cover and Ply Adhesion for Belts having Continuous
Filament Synthetic Fibre Carcasses.

Page 10. Clause 4.5.

Delete existing clause and substitute:

4.5 Cover and Ply Adhesion.* When tested by Method 7 of AS 1334, the adhesion of belting between ply and ply, and between cover and ply, shall be not less than the values given in Table 7(a) or Table 7(b), whichever is appropriate. Where plies are of continuous filament synthetic fabric, unless otherwise specified, the values given in Table 7(b) shall apply.

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197

Delete Table 7 and substitute Tables 7(a) and 7(b):

TABLE 7(a)
VALUES OF COVER AND PLY ADHESION

Value	Adhesion between adjacent plies kN/m	Adhesion between cover and ply	
		Cover 0.8 to 1.5 mm thick kN/m	Cover more than 1.5 mm thick kN/m
Mean value of results in the longitudinal direction	3.15	2.10	2.70
Mean value of results in the transverse direction	3.15	2.10	2.70
Mean value of all results	3.50	2.40	3.00
Lowest graphically recorded value from all tests	2.70	1.60	2.20

TABLE 7(b)
VALUES OF COVER AND PLY ADHESION FOR BELTS HAVING CONTINUOUS FILAMENT SYNTHETIC FIBRE CARCASSES

Value	Adhesion between adjacent plies kN/m	Adhesion between cover and ply	
		Cover 0.8 to 1.5 mm thick kN/m	Cover more than 1.5 mm thick kN/m
Mean value of results in the longitudinal direction	4.50	3.15	3.50
Mean value of results in the transverse direction	4.50	3.15	3.50
Mean value of all results	5.00	3.50	3.90
Lowest graphically recorded value from all tests	3.85	2.40	2.85

Published on 1 August 1979.

AUSTRALIAN STANDARD SPECIFICATION

RUBBER CONVEYOR AND ELEVATOR BELTING OF PLY CONSTRUCTION FOR GENERAL APPLICATION

AS 1331—1974

First published (as AS B6)	1936
Revised	1944
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PREFACE

This standard was prepared by the Association's Committee on Conveyor and Elevator Belting as a comprehensive revision and metrication of Australian Standard B6.1—1966 which it accordingly supersedes. It also incorporates the requirements of AS B3—1944, Friction-surface Rubber Conveyor and Elevator Belting, which is also accordingly superseded.

The standard applies to conveyor belting for general use for transporting materials which present no special hazards or require no special consideration. Belting for special applications such as underground mining is the subject of separate standards.

In this standard general construction requirements, preferred widths and certain important minimum physical properties are given, together with tolerance requirements for widths and thickness. Dimensional and physical requirements are largely based on the work of the International Organization for Standardization through its technical committee ISO/TC 41, Pulleys and Belts. The standard embodies certain requirements which are substantially similar to those stipulated in the following ISO recommendations:

ISO/R 283 Full Thickness Tensile Strength and Elongation of Conveyor Belts

ISO/R 583 Tolerances on the Total Thickness of Conveyor Belts and on the Thickness of Covers

The committee considered other requirements such as impact resistance, resistance to gouging, abrasion resistance, tensile fatigue, flexing and co-efficient of friction, but decided that, while these requirements are relevant to general purpose belting, the test methods so far developed have not been satisfactorily correlated to field service, and should not be included at this stage.

It should be noted that this standard incorporates only minimum requirements for belting. Where limits, tolerances and tests other than those specified herein are required, they are to be subject to agreement between the purchaser and supplier. Attention is drawn to the Appendix which lists information that should be given by the purchaser when ordering either new belting or replacement belting.

The standard requires reference to:

AS 1334 and B238 Methods of Testing Conveyor and Elevator Belting

AS B255 Glossary of Terms for Conveyor and Elevator Belting.

WARNING. Rubber belting made to this standard may not necessarily be electrically insulating at any stage of its life and must not therefore be used as an insulator for electrical work.