STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

METHODS OF TESTING CONVEYOR AND ELEVATOR BELTING

AS 1334.2A
DETERMINATION OF THICKNESS OF COVER USING AN OPTICAL MAGNIFIER*

1 SCOPE. This standard sets out a method for determining the cover thickness of conveyor and elevator belting using an optical magnifier.

2 APPLICATION. The method has a particular application for belting with textile reinforcement where removal of the cover from the belting is not feasible.

3 REFERENCED DOCUMENT. The following standard is referred to in this standard:

AS 1334 Methods of Testing Conveyor and Elevator Belting
1334.2 Determination of Thickness of Belting and Rubber Covers Across the Width

4 PRINCIPLE. The thickness of the top and bottom covers is measured on a cut edge of the unstripped belt using an optical magnifier. Measurements are made of the distance along the normal from the surface of the belt to the fabric knuckles (see Fig. 1).

5 APPARATUS. An optical magnifier incorporating a scale graduated in divisions of 0.1 mm is required.

6 PROCEDURE. The procedure shall be as follows (see Fig. 1):

(a) Mark one edge of the belt at a point *A* and the other edge at a point *B* directly opposite *A*. Mark a point *C* on the same edge as *B* and 50 mm from B.

(b) Cut the belt across its full width at right angles to the surface and obliquely to the edges of the belt on the line *AC*. The line of cut shall not intersect any embossed markings on the surface of the belt.

(c) Measure the distance *AC* and divide as described in AS 1334.2, Clause 4.

(d) For each cover measure, to the nearest half division at the fabric knuckle nearest to each of the five lines, the distance between the surface of the belt and the fabric knuckles. Record each of the five measurements and calculate their average.

NOTE: The test piece can also be used to determine the belt thickness according to AS 1334.2.

7 REPORT. For each cover, the mean thickness shall be reported along with the belt thickness as determined in AS 1334.2.

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* Derived from and substantially similar to N.C.B. Specification No 158, Fire-resistant Conveyor Belting, Part 6: 1980, Measurement of Cover Thickness.