



Global Belt Tender Project

Equipment: Belt Conveyor Systems

Problem: Comparative testing of conveyor belt samples from a range of belt suppliers for a global tender project

TBS Solution

TUNRA Bulk Solids (TBS), being an independent organisation was approached by one of the world's largest mining corporations for a global belt tender project. TBS has the ability to provide services to the highest quality and have a solid understanding of the relevant belt characteristics. A wide range of available standardised and in-house tests were used to evaluate and compare the characteristics of the conveyor belts.

Project Scope

- ▶ AS 1332 – Textile Reinforced Belting
- ▶ AS 1334 – Fabric/General Belting
- ▶ AS 1333 – Steel Cord Belting
- ▶ AS 1683 – Cover Rubber Specific Test



Figure 1: Tensile Strength & Elongation Test



Figure 2: Cut and Gauge Test

Project Outcomes

The extensive laboratory and specialised in-house tests

were able to provide an unbiased and scientific result to the client. The capability of the TBS group led to the completion of the global tender project in a timely manner. An example is the abrasion resistance standard test that was used to compare different cover grade rubbers, the test rig used is shown in Figure 3. The result shown in Figure 4 presents the outcome of the different supplied rubber compounds. As all testing was conducted at a single location, inter-lab variability is avoided and uncertainty reduced.



Figure 3: Abrasion Resistance Standard of Cover Rubber

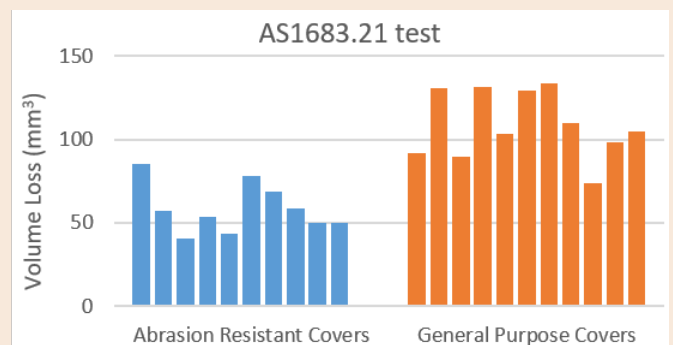


Figure 4: Comparison of Abrasion Resistant and all Purpose Type Covers in the AS1683.21 Wear Test

Advancing the Bulk Materials Handling Discipline Globally



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