

Summary:

DIN Type Abrasion Tester is to measure the abrasion resistance of rubbers (vulcanized thermoset rubbers and thermoplastic elastomers) that are subject to abrasive/frictional wear in their actual service, such as tires, conveyor drive belts, and shoe soles.

Main Technical Parameters:

Item	Specification
Specimens size	16mm, 6-15mm (D)
Fixture load	2.5N
Weight load	2.5N,5N
Fixture lateral displacement	4.2mm/wheel each lap
Wheel diameter	150mm
Wheel length	460mm
Wheel rotate speed	40rpm
Abrasion speed	0.32m/sec
Dip angle	3°the angle of the specimen back shaft with vertical roller face

Principle:

Under specified touched pressure and given area, when the sample and the abrasive paper get an angle, test the abrasion resistance of the sample on the abrasive paper with certain rank.

Wrap the abrasive paper on the roller. The sample address on the roller with abrasive paper to make the sample move horizontally along with the roller. Abrasion is produced on the one end of the cylinder sample. Measure the loss value of the sample and calculate the abrasion resistance according to sample density.

Design standard:

DIN-53516, ISO/DIS-4649, BS903 PART9 and GB-9867.

5.1 Abrasion machine

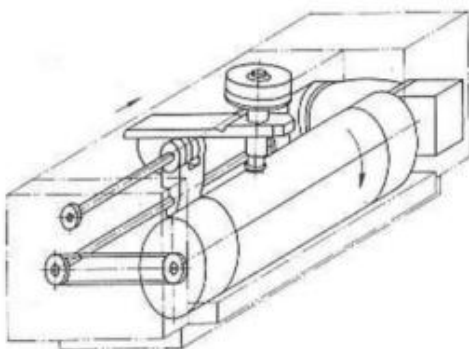


Figure 2. Diagram of abrasion machine

