



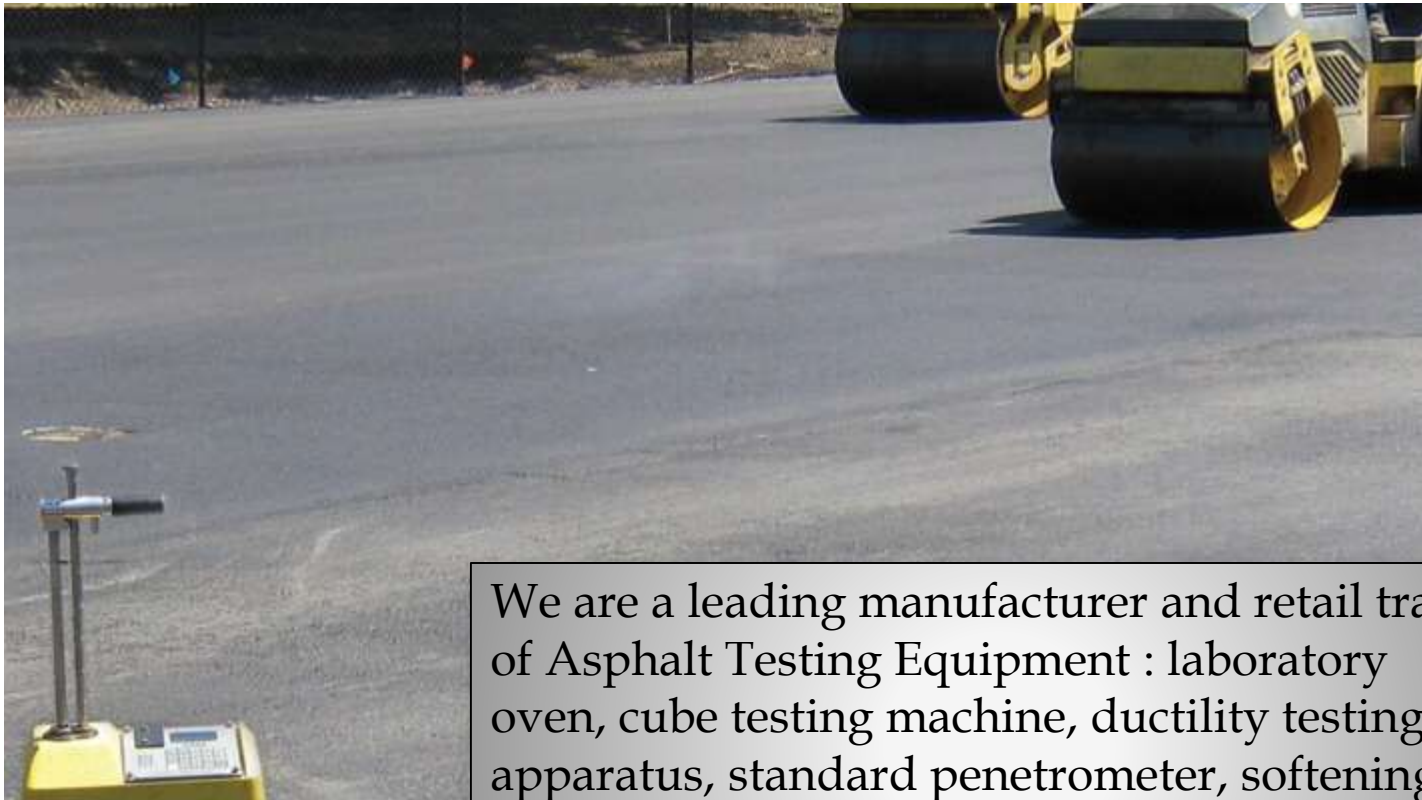
Aimil Ltd.



Asphalt Quality Control

Testing Equipment

Asphalt Testing Range



We are a leading manufacturer and retail trader of Asphalt Testing Equipment : laboratory oven, cube testing machine, ductility testing apparatus, standard penetrometer, softening point apparatus and bitumen extractor, and many more.....

List of Bitumen and Asphalt Testing Equipment

| S No. | Name of the Equipment | Ref. Standards |
|--------------|--|--|
| 1 | Abel Flash Point Apparatus (AIM 507) | IS:1448 - Part 20, IS:101 , IP 170, IP 33, BS:3900 |
| 2 | Aimil Visco 2000 (AIM 534) | ASTM 04402 & BIS 73 |
| 3 | Asphalt Content Tester (AIM 590) | ASTM 06307 & EN 12697 39 |
| 4 | Asphalt Extraction Apparatus Automatic (AIM 588) | |
| 5 | Asphalt Mixer | EN 12697-35 |
| 6 | Asphalt Mixer Theoretical Density Meter with Vacuum Pump (AIM 582) | ASTM 02041-03 |
| 7 | Automatic Compactor | EN 12697-10-30 |
| 8 | Benkelman Beam (AIM 566-3) & (AIM 566-3-AN) | |
| 9 | Bitumen Penetration Kit ((AIM 518) | IS 1203,ASTM D-5, EN-1426, 13179-2 |
| 10 | Bump Integrator | (AIM-9903-1) & (AIM-9905-1) |



| S No. | Name of the Equipment | Ref. Standards |
|-------|---|--|
| 11 | Cannon Manning cum Cannon Fenske Viscometer (AIM-532-3) | |
| 12 | Carbon Residue, Conradson (AIM 501) | |
| 13 | Centrifuge Extractor, Capacity 1500g Electrically Operated (AIM 563-1) | IS1206 (II) & IS 1206 (III) |
| 14 | Cloud and Pour Point Apparatus (AIM 503) | IS:1448(Part10), IP15, BS:4452, ISO 3016 |
| 15 | Ductility Testing Machine | IS:1208, ASTM D113, AASHTO T 51 |
| 16 | Engler Viscometer (AIM 535) | ASTM D 1665, IP212, BS:434 |
| 17 | Film Stripping Device (AIM 581) | |
| 18 | Flash Point (Open) and Fire Point Cleveland (AIM 505) | |
| 19 | Flash Point Pensky-Martens Apparatus (AIM 509) and (AIM 511) | |
| 20 | Marsh Cone (Funnel) Viscometer (AIM 536-1) | |



| S No. | Name of the Equipment | Ref. Standards |
|-------|---|---|
| 21 | Marshall Apparatus | ASTM D1559 BS:598-197, EN-12697-34 |
| 22 | Mastic Asphalt Tester (AIM 592) | BS 5284 & IS 1195 |
| 23 | Mobile Laboratories | |
| 24 | Modified Roughness indication Machine - Merlin (AIM 570) | |
| 25 | Pave Frame (AIM-583-1 & AIM-584-1) | |
| 26 | Pavement Core Drilling Machine (AIM 551-1) | EN 12504-1 |
| 27 | Pavement Dynamic Cone Penetrometer (AIM 567) | |
| 28 | Pavement Intensity Test Apparatus | |
| 29 | Penetration Cone (AIM 515) | IS:1448 (Part 60), ASTM D 937, IP 179, BS:4698, ASTM 0217, IP50, IS02137. |
| 30 | Redwood Viscometer | IP 70 |



| S No. | Name of the Equipment | Ref. Standards |
|-------|---|---|
| 31 | Ring and Ball Apparatus (AIM 561-1) and (AIM 561-2) | |
| 32 | Saybolt Viscometer (AIM 529-1) | ASTM 088, D 244, AASHTO T 72 |
| 33 | Skid Resistance Tester (AIM 580) | BS 812-114 |
| 34 | Standard Tar Viscometers (AIM 531) and (AIM 533) | IS:1206, IP72, STPTC. RT2, RT3, BS:2000, (Part72) |
| 35 | Trichloroethylene Recycler (AIM 589) | ASTM 05616-04 |
| 36 | Universal Penetrometer (AIM 512-1) | |
| 37 | Water proofing test apparatus for Asphalt - Hydraulic (AIM 586) | |
| 38 | Wheel Rut Shaper (AIM 578) | EN 12697 - 33 |
| 39 | Wheel Rut Tester (AIM 579) | |

Abel Flash Point Apparatus



Abel Flash Point

For determining closed cup flash point of petroleum products, their mixtures, other liquid and paints, having flash points between 19°C and 49°C

AIM 507

Aimil Visco 2000



AIM 534

- For testing of asphalt binders
- Viscosity measurement for High Temperature Testing of Asphalt Binders
- The Aimil Visco 2000 Viscometer is specially designed to perform ASTM D4402 & BIS 73 high temperature testing of asphalt binders.

Asphalt Content Tester



To determine the asphalt content of hot mix asphalt (HMA), paving mixtures and pavement samples by Used for removing the asphalt in an ignition furnace by means of sample heating not by means of solvents.

Asphalt Extraction Apparatus Automatic



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AIM 588

For performing reliable analysis on asphalt mixtures using noninflammable solvent as trichloroethylene and dichloromethane.

Asphalt Mixer



Used for laboratory mixing of bituminous materials to prepare the specimens to be used for various asphalt tests

Models available:

- Asphalt Mixer 5 It (AIM 575)
- Asphalt Mixer Vertical, 20 It (AIM 577)

Asphalt Mixer Theoretical Density Meter with Vacuum Pump



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AIM 582

For determination of theoretical density of asphalt mixer by vacuum method for applications such as asphalt mixer design, road condition investigation, calculation of porosity and compactness in the road construction quality management.

Automatic Compactor

For compaction & preparation of Asphalt samples

Models available:

- Automatic Compactor for Bituminous Mixes (AIM 553-1)
- Automatic Compactor for Bituminous mixes using Modified Marshall Mould (AIM 553-2)
- Automatic Compactor for Bituminous Mixes for 4" & 6" moulds (AIM-553-1-S1)



AIM 553-1

Benkelman Beam



Suitable for measuring road
flexure

Models available:

- Benkelman Beam with Digital dial gauge 0.001x25mm Travel (AIM 566-3)
- Benkelman Beam with Analog dial gauge 0.01x25mm Travel (AIM 566-3-AN)

Bitumen Penetration Kit



It is used with Aimil Penetrometer

Optional Accessories:

- Penetration Cone
- Penetration Needle
- Penetration Test Cone
- Penetration Test Cup

Used with Universal Penetrometer



Bump Integrator



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For measuring un-evenness or roughness / evaluation of surface condition of roads.

Models available:

- Bump Integrator with preset facility with transportation wheel (AIM-9903-1)
- Bump Integrator with Unevenness Index with transportation wheel (AIM-9905-1)

Cannon Manning cum Cannon Fenske Viscometer



For the determination of the
absolute viscosity &
Kinematic viscosity of
bitumen & cut - backs by a
vacuum capillary method at
specified temperatures

Carbon Residue, Conradson



For determining the amount of carbon residue after evaporation, pyrolysis of oil, and to provide some indication of relative coke forming propensity.

Conradson carbon residue, commonly known as "Concarbon" or "CCR" is a laboratory test used to provide an indication of the coke-forming tendencies of an oil.

Centrifuge Extractor, Capacity 1500g Electrically Operated



AIM 563-1

For determining
bitumen percentage in
Bituminous paving
mixtures.

Cloud and Pour Point Apparatus



AIM 503

For determining
bitumen percentage in
Bituminous paving
mixtures.

Ductility Testing Machine



AIM 565-1

For determining the degree of ductility of bituminous surfaces

Models available:

- Ductility Testing Machine (AIM 565-1)
- Ductility Testing Machine with digital display (AIM 565-DG)
- Ductility Testing Machine with digital display & cooling (AIM 565-DG-C)

Film Stripping Device



For measuring the resistance of bituminous mixtures to stripping of asphalt from aggregate particles.

Flash Point (Open) and Fire Point Cleveland



AIM 505

For determining the flash and fire points of petroleum products, except for fuel oil and those products which have open cup flash point below 79° C (175° F).

Flash Point Pensky-Martens Apparatus

For determining the flash point of fuel oils and lubricating oil, bitumen other than cutback bitumen and suspension of solids in liquids, having a flash point above 49°C.

Models available:

- Flash Point (Closed) Pensky-Martens Apparatus (AIM 509)
- Flash Point (Open) and Fire Point Pensky-Martens Apparatus (AIM 511)



AIM 509

Flow Cup



For the measurements
of apparent viscosity
for control of
consistency during
manufacture and use of
paints, lacquers and
viscous products

Marsh Cone (Funnel) Viscometer



For quick
measurements of fluid
viscosity

Marshall Apparatus



For the measurement of the resistance to plastic flow of cylindrical specimens of bituminous paving mixture loaded on the lateral surface.

Mastic Asphalt Tester



AIM 592

For determining the hardness of asphalt material

Modified Roughness indication Machine - Merlin



AIM 570

For determining the
hardness of asphalt
material

Pave Frame



Used for applications such as CBR, UCS, Marshall both standard and modified indirect Tensile, Triaxial and other routine tests.

Models available:

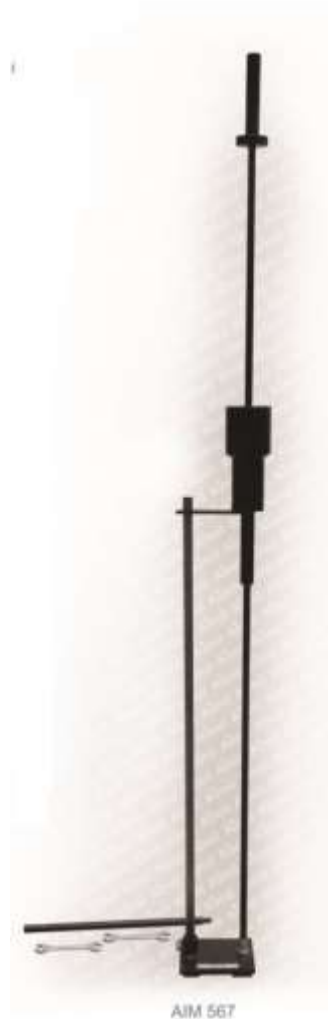
- PaveFrame, Digital, 50 kN capacity with load cells LVDT with Digital Indicator (AIM-583-1)
- PaveFrame, Analog, 50 kN Capacity with Proving Ring & Dial Gauge (AIM-584-1)

Pavement Core Drilling Machine



For the purpose of drilling test cores from or holes in roads, airport runways, bridges

Pavement Dynamic Cone Penetrometer



For in-situ measurement of the structural properties of road pavements.

Pavement Intensity Test Apparatus



AIM 583



AIM 584

Used for testing the material of road base and pavement

Models available:

- Pavement Intensity Test Apparatus Digital type with load cells LVDT with digital indicator (AIM 583)
- Pavement Intensity Test Apparatus Manual type with proving ring & dial gauge (AIM 584)

Penetration Cone



For empirical estimation of the consistency of lubricating grease and petroleum.

Ring and Ball Apparatus

For determining the temperature at which a sample of bituminous material loaded by a 9.5 mm dia steel ball, drops a specified distance when heated under specified conditions.



Models available:

- Ring and Ball Apparatus Digital (AIM 561-1)
- Ring and Ball Apparatus Semi Automatic (AIM 561-2)

Saybolt Viscometer



For the empirical measurement of Saybolt Viscosity of petroleum products at specified temperatures between 70°F and 210°F.

Skid Resistance Tester



For measuring antiskid performance of high grade roads and airport pavement both in the lab and in-situ.

Standard Tar Viscometers



For determining the viscosity of cut back bitumen and road oil

Models available:

- Standard Tar Viscometer with 10mm cup and ball valve (AIM 531)
- Standard Tar Viscometer with 4mm cup and ball valve (AIM 533)

Trichloroethylene Recycler



Used for asphalt extraction to recover the Trichloroethylene or dichloromethane from the bituminous mixtures.

Universal Penetrometer



AIM 512-1

Measurement of penetration or the depression made in the sample which is measured in tenths of a millimeter & expressed as a penetration number

Water proofing test apparatus for Asphalt - Hydraulic



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AIM 586

For determining the water proofing of the petroleum bitumen felt and the roofing sheet.

Wheel Rut Shaper



AIM 578

For preparing the bitumen specimen for wheel rut testing used in research and road construction

Wheel Rut Tester



For determining the resistance ability to wheel tracking at high temperature of bituminous combined material.



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Thank You

Aimil offers State-of-the-art instruments in the field of Civil Engineering, Electronics, Analytical & Industrial, Hygea Healthcare and Consultancy in the field of Civil Engineering, Noise & Vibration Engineering Services & Condition Monitoring Reliability Services.



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