



Scope of Accreditation

ACCREDITATION NO: 15840

LMATS Pty Ltd

Melbourne Mechanical Testing Laboratory
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FACILITIES: Public testing service

This facility complies with the requirements of ISO/IEC 17025:2005

13.01 Metals and metal products

- .11 Tension tests on test pieces
Tests with strain rate control in the range 500 N to 500 kN including proof stress tests to AS 1391 and similar methods
- .15 Tension tests on products
Tests in the range 500 N to 500 kN
- .21 Brinell hardness tests
Tests in the range 4.9 to 29.4 kN, including tests at 29.4 kN using portable hardness testers, to AS 1816.1 and similar methods
- .22 Rockwell hardness tests
Tests using B, C scales to AS 1815.1 and similar methods
- .23 Vickers hardness tests
Tests to AS 1817.1 and similar methods
- .31 Impact tests
Charpy impact tests to AS 1544.2 and similar methods in the temperature range ambient down to -99°C and at -196°C
- .51 Compression, transverse and shear tests
Compression tests in the range 500 N to 500 kN
- .58 Bend tests
Tests to AS 2505 and similar methods
- .61 Tests on reinforcement for concrete
Tests in the range 500 N to 500 kN to AS/NZS 4671
Mass per unit length of reinforcing steel to AS/NZS 4671 clause C3.3 and similar methods
- .71 Tests on wire
Tensile, wrap, torsion and bend tests to AS 1391, AS 2505 and similar methods
- .81 Tests on tubes
Flattening, reverse flattening, bend and shear tests to AS 1074, AS1163, ASTM A450 and similar methods
- .99 Other tests
Embrittlement tests on steel to ASTM A143
Contamination test to detect iron on passivated steel to ASTM A380 Clauses 7.2.5.3 and 7.3.4



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13.03 Welds and welded test specimens

- .11 Tension tests
As for 13.01.11
- .21 Hardness tests
As for 13.01.21, .22, .23
- .31 Impact tests
As for 13.01.31
- .51 Shear tests
Tests to AS 2205.8.1, .8.2 and similar methods
- .58 Bend tests
Tests to AS 2205.3 and similar methods
- .61 Fillet-break tests
Tests to AS 2205.4.2 and similar methods
- .62 Nick-break tests
Tests to AS 2205.4.1 and similar methods
- .71 Cracking tests
Hot cracking tests to AS 2205.9.1 and similar methods
- .91 Macroscopic examinations
Tests to AS 2205.5.1 and similar methods
- .99 Other tests
Macroscopic volume fraction tests to ASTM E562 and similar methods

13.08 Threaded fasteners

- .11 Tension tests
Tests to AS 4291.1 and similar methods
- .12 Proof tests
Tests to AS 4291.1 and similar methods
- .13 Tension-torque tests
Tests to AS 4291.7 and similar methods
- .14 Stripping tests
Strip tests on galvanised coatings of fasteners to AS 1214 and similar methods
- .15 Torsion tests
Tests to AS 4291.7 and similar methods

13.44 Mechanical tests on assemblies

- .90 Fences, gates and guardrails
Proof load tests on guardrails and guardrail posts to AS 1657
- .99 Other assemblies
Load tests on car jacks, trolley jacks and stands to AS/NZS 2538, AS/NZS 2615 and AS/NZS 2693
Static strength tests on tow balls to AS 4177.2 Appendix A

13.65 Pipes, hoses, valves and fittings

- .11 Hydrostatic pressure tests
Hydrostatic pressure tests up to 40 MPa on exposed items to AS 1579, AS 1631, AS 2033, AS 4037, AS/NZS 2885.5, ASME V, Art. 10 and similar methods

13.66 Cylinders and other pressure vessels

- .11 Hydrostatic pressure tests
Hydrostatic pressure tests up to 40 MPa to AS 4037, ASME V, Art. 10 and similar methods

13.86 Hand tools

- .11 Hand hammers
Hardness, striking, handle grip adhesion, pull apart tests to AS 3797.1, .2 and .3
- .21 Screwdrivers
Tests to AS 3527.1-1988 and AS 3527.2 (except for electrical Tests)



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- .31 Pliers, pincers and nippers
Tests to AS/NZS 4056.3

13.90 Microstructural tests on ferrous materials

- .11 Grain size
Grain size to AS 1733 and similar methods
- .12 Case depth and depth of decarburisation
Case depth measurement by hardness traverse test to AS 1982 Clause 6.1 and similar methods
Case depth by micrographic and macroscopic methods to AS 1982
Depth of decarburisation to AS 2003
- .13 Depth of surface defect
Tests to ASTM E3, E7 and similar methods
- .14 Non-metallic inclusion content
Tests to AS 2197 and similar methods
- .15 Macroscopic examination of steels
Tests to AS 2087 and similar methods
- .16 Graphite type and distribution in cast irons
Tests to AS 5049 and similar methods
- .17 Corrosion resistance of austenitic stainless steels
Tests to ASTM A262 (Practice A) and similar methods
- .99 Other tests
Microscopic volume fraction tests to ASTM E562 and similar methods

13.91 Microstructural tests on aluminium and aluminium alloys

- .11 Grain size
Grain size to AS 1733 and similar methods
- .12 Depth of cladding
Tests to ASTM E7, B487 and similar methods
- .13 Macroscopic examination of wrought products
Tests to AS 2087 and similar methods
- .14 Depth of surface defects
Tests to ASTM E3, E7 and similar methods
- .15 Anodizing thickness
Tests to AS 1231 and similar methods
- .21 Tests on welds
Tests to AS 1665 and similar methods
- .99 Other tests
Microscopic volume fraction test to ASTM E562 and similar methods

13.92 Microstructural tests on copper and copper alloys

- .11 Grain size
Grain size to AS 1733 and similar methods
- .12 Proportion of phases
Tests to ASTM E562 and similar methods
- .13 Resistance to stress-corrosion cracking
Tests to AS 2136 and similar methods
- .15 Depth of surface defects
Tests to ASTM E3, E7 and similar methods
- .16 Susceptibility of brass to dezincification
Tests to AS 2345 and similar methods

13.93 Microstructural tests on other metals and alloys

- .11 Grain size
Grain size to AS 1733 and similar methods
- .12 Depth of surface defects
Tests to ASTM E3, E7 and similar methods



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.99 Other tests

Microscopic volume fraction test to ASTM E562 and similar methods

13.94 Coatings

.01 Metallic coatings

Tests to AS 1192, 1214, 1247 and similar methods

.11 Conversion coatings

Tests to AS 1791 and similar methods

.99 Other tests

Adhesion bend test to AS 1580.402.1 and similar methods

Coating mass tests to AS 2331.2.1 and similar methods

13.95 Corrosion tests

Tests to AS 2205.10.1, AS 2038 Clauses 6 and 7, ASTM A262 Practices A, C and E, ASTM A923, ASTM G28, ASTM G48

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Corporate Site No: 17127

(Scope Last Changed 28/10/09)
