

CAPABILITY GUIDE WIRE ROPE TESTING

TestSafe Australia has an established reputation in both destructive and non-destructive wire rope testing and assessment.

Our services include the following:

TESTING AND CONSULTANCY

Destructive

- Destructive testing and inspection of samples for determination of residual breaking force and condition.
- Individual wire mechanical tests to AS 3569 and zinc coating tests to AS/NZS 4534 for determination of residual strength and deterioration of the wires.
- Assessment of rope condition against nominated/selected/specified retirement criteria such as but not limited to Department of Mineral Resources Guideline MDG No 26, AS 2759, CAN/CAS-Z98-96.

Non Destructive

- Either laboratory or in-situ non-destructive testing, using permanent magnet type automated instrumentation, of stationary or moving/static or dynamic wire ropes used on cranes, building lifts, ski lifts, amusement park rides, aerial ropeways, mining winders, dam gates and cable belts, up to 70mm diameter.

FACILITIES

Destructive Testing

- Rope samples up to 56mm diameter or 2800 kN breaking force (maximum capacity) forwarded for destructive tests are usually capped with our special resin caps to achieve maximum residual breaking force. For more detailed analysis of the rope's condition, individual wire tests including reverse bend, torsion, tensile, and zinc coating mass are available. Our skilled staff carry out inspections to report on rope condition.

Non-Destructive Testing

- Four sizes of portable permanent magnet testers are used to cover rope sizes from near 0 to 70mm. These have the capability of measuring area loss quantitatively. Defects such as broken wires, corrosion, wear, mechanical damage and distortion may also be assessed qualitatively. As long as relative movement between the tester's sense head and the rope can be achieved, the condition of almost the complete length of any rope can be assessed. Tests are usually carried out in situ with the rope operating during normal service.

TestSafe Australia is an independent testing authority operating under a quality management system to ISO 9001:2000 and is recognized for the majority of its work as a NATA registered laboratory.

For further information please contact

*TestSafe Australia
PO Box 592 Richmond NSW 2753
919 Londonderry Road, Londonderry NSW 2753*

*Phone 02 4724 4900
Fax 02 4724 4999*

e-mail testsafe@workcover.nsw.gov.au

website: www.testsafe.com.au