

CAPABILITY GUIDE PERSONAL PROTECTIVE EQUIPMENT TESTING

TestSafe Australia plays a significant role in ensuring the safety of operators in the workplace through the testing and assessment of Personal Protective Equipment (PPE). TestSafe is an independent testing facility that as part of its operation conducts testing for certification of PPE. Our technical staff provides service to manufacturers and suppliers of PPE. We provide a laboratory for the development and evaluation of PPE, and participate in the preparation of Australian Standards. Our test facilities are also available for product development testing.

TESTING

Respiratory Protective Devices to AS/NZS 1716-1994 General

- Breathing resistance of face pieces and filters
- Face piece outlet valve leakage
- Noise level of respirators
- Positive pressure
- Total inward leakage testing assessing the facial fit of a respirator
- Carbon dioxide accumulation
- Security of attachments to face pieces
- Simulated work testing
- Assessment of marking and instructions

❖ *Powered air-purifying respirators*

- Flow rates
- Battery life

❖ *Self contained breathing apparatus*

- Nominal effective life.
- Pressure testing of pressure hoses.
- Active warning device.

❖ *Particulate, gas and vapour filter respirators*

- Gas filter capacity.
- (HCN, H₂S, Cl₂, SO₂, NH₃, Cyclohexane).
- Particulate filtering efficiency of filters.
- Simulated rough usage of filters.
- Exhaled air humidity pre-conditioning for disposable type respirators.

❖ *Airline respirators*

- Tensile and kink testing of airline assembly, couplings and waist belts.
- Simulated work testing.

Industrial vacuum cleaners for particulates hazardous to health to AS 3544-1988.

- Filtering performance to Sodium Chloride.
- Accumulation of dust.
- Disturbance test.

Occupational safety helmets to AS/NZS 1801-1997

- Dimensions.
- Conditioning.
- Stiffness of helmet shell.
- Electrical resistance.
- Shock absorption – 5kg mass.
- Penetration resistance – 3kg spike.
- Resistance to ignition of helmet shell.
- Prolonged high temperature stability.
- Thermal performance.
- Retaining strap strength-tensile.
- Marking.

Spray painting booths, designated spray-painting areas and paint mixing rooms. Part 1 design, construction and testing to AS/NZS 4114.1:2003

- Design and construction.
- On site assessment.

Selective Testing of Eye Protectors for industrial applications AS/NZS 1337-1992

- Dimensions.
- Visual quality.
- Low impact testing-ball drop method.
- Medium and high impact testing-ballistic tests at 40 and 120m/s.
- Penetration.
- Flame propagation.
- Protection against hot solids.
- Protection against splashes.
- Marking.

Facilities

- NATA accredited helmet test facility.
- Large gas chamber for total inward leakage of respirators using human subjects.
- Respirator filter gas-testing rig, for testing filters to Cl₂, HCN, H₂S, SO₂, NH₃, Cyclohexane.
- Automatic filter tester for particulate efficiency of filters/disposable respirators.
- Artificial breathing machines for positive pressure.
- Ballistics rig for the testing of eye protectors.

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

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