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SAFETY CLIP

Technical Specification and Testing Requirements of Safety Clip - TP001

1.0 Introduction

This specification has been devised for general requirements and testing for the Sureguard Safety clip. A search of the Australian, New Zealand and International Standards has failed to locate an official publically available standard for this type product.

The Safety connection in the safety clip is designed to break with a specific force if the gloves or other items held in the safety clip are caught and drawn into machinery or other occupational snag hazards.

A design patent has been lodged and it pending approval at the time of publication of this document.

Designed for indoor and outdoor use.

2.0 Specification

The safety connection is designed to fail under a tensile force of 6.0 kg or 59 N.

Tolerance on this specification is $\pm 10\%$.

3.0 Material

The base material shall be 100% Acetal; no regrind material is to be used in the manufacture of the safety clip.

4.0 Sampling and Batch Testing Procedure

The finished safety clip shall be tested as a complete unit and comply with the testing specification at paragraph 2.0 of this document.

The test pieces shall be selected from a random sample from the production run at the start, middle and end of production cycle, or from a random sample of different packages if selected from stock in the warehouse.

A minimum of 10 samples shall be selected from any 1000 units.

If any 2 of the 10 pieces fails to meet the specifications during the tensile test then the complete batch shall be retested by sampling a further 20 pieces shall be tested.

If any further testing samples (20) fail to meet the specifications then the complete batch shall be segregated and destroyed.

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As part of the compliance program, SAI Global undertakes an annual audit of the manufacturing facility to review process, procedures and batch testing results.

5.0 Method of testing

The test pieces that have been selected for the sampling process shall have the batch number or production number recorded on the testing record.

The safety clip should be conditioned in the testing laboratory for 24 hours before testing begins.

The safety clips shall be placed in a material tensile testing machine with the clip ends secured in the jaws of the testing machine, the rate of extension shall be 1000mm per minute shall be used.

6.0 Pass/Fail Criteria

The pass a criterion is the safety connections shall break within the specifications nominated in this document. The safety clip is designed to break within the tolerances specified in this document.

The fail criterion is if any 2 test pieces do not break within the specification then this shall require a further twenty (20) safety clips to be tested.

If any 2 of the additional 20 clips do not break within the specifications then the complete batch shall be quarantined and destroyed.

If any two consecutive batches have more than 10 failures then production shall be frozen until the design is reviewed and any faults detected.

A failure shall not be recorded if the clips do not hold in the jaws of the tensile testing machine.

7.0 Results

The test report will include

- 1) Each of the tensile breaking results for the ten pieces shall be recorded.
- 2) The average tensile strength of the ten pieces shall be determined.
- 3) The person conducting the test shall record their name
- 4) Date of the test.
- 5) Reference to the testing machine and this specification.
- 6) If retesting is conducted then all test results shall be recorded.

8.0 Design and Labelling

Design drawings and photographs are detailed in Annex A of this document. The labelling and user instructions are detailed in Annex B.

Sureguard Safety products are proud to use the SAI Global StandardsMark logo on its product. The StandardsMark logo provides confidence in the market that Sureguard is supplying a quality product.

Technical Specification TP001 – Sureguard Safety Clip - February 21, 2011 Revision 0.