

TEST REPORT

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Business Reg. No. 196900269D

Date: 23 October 2019

Your Ref .: -

Our Ref.: MM-8500081289/OWD

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Subject

Batch testing of Industrial Safety Helmet submitted by QSS Safety Products

(S) Pte Ltd on 15 October 2019.

Tested for

QSS SAFETY PRODUCTS (S) PTE LTD

239 Ubi Avenue 4

Interpid Warehouse Complex

Singapore 408821

Date of Test

18 October 2019 to 23 October 2019

Method

of Test

SS 98: 2013

1. Physical Requirements

2. Force Transmission (Hot & Wet condition)

3. Penetration Resistance (Hot & Wet condition)

4. Flame Resistance

5. Chinstrap Anchorage

6. Electrical Properties (Optional)

7. Marking

Description

of Sample

71 pieces of Industrial Safety Helmets with chin strap were randomly sampled at the premises of QSS Safety Products (S) Pte Ltd from the following batch;

Batch Size

7100 pieces

Brand / Model

Quebee / QB-HM-AQM-2, QB-HM-AQM-3

& QB-HM-AQM-8 (Vented)

Colour

White, Yellow, Green & Blue

Country of Origin

China

Chin Strap

Black, red & white stripe elastic strap

Manufacture Date

of Shell

September 2019

Cargo Clearance

Permit No.

IG9J841484I

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Results:

1. Physical Requirement

The tested sample complied with the requirements of SS 98 : 2013 specification. Refer to Table 1.

2. Force Transmission

The tested sample complied with the requirements of SS 98 : 2013 specification. Refer to Table 2.

3. Penetration Resistance

The tested sample complied with the requirements of SS 98 : 2013 specification. Refer to Table 3.

4. Flame Resistance

The tested sample complied with the requirements of SS 98 : 2013 specification. Refer to Table 4.

5. Chinstrap Anchorage

The tested sample complied with the requirements of SS 98 : 2013 specification. Refer to Table 5.

6. Electrical Properties

The tested sample complied with the requirements of SS 98 : 2013 specification. Refer to Table 6.

Marking

The tested sample complied with the requirements of SS 98 : 2013 specification. Refer to Table 7.

CONCLUSION

- 1. Based on the results, the samples taken from the consignment of industrial safety helmets complied with the batch testing scheme in accordance with SS 98 : 2013.
- 2. The remaining of the untested industrial safety helmets in the consignment (i.e. 7029 pieces), were each labeled with a SETSCO SERVICES BATCH INSPECTED labels from B776062 to B783090.

OW WEI DE Testing Officer

Engineer (Mechanical Testing)
Mechanical Technology Division

Results:

Physical Requirement

Table 1: Construction

Observation	Result	SS 98 : 2013 Requirement
Construction	Complied	Clause 4.1
Material	Complied	Clause 4.2

Performance

Table 2: Force Transmission Test

Conditioning method	Result	SS 98 : 2013 Requirement (Clause 5.1.1)	
Hot	Complied	Force ≤ 5 kN	
Wet	Complied	Crack ≤ 50 mm	

Table 3: Penetration Resistance Test

Conditioning method	Result	SS 98 : 2013 Requirement (Clause 5.1.2)	
Hot	Complied	Striker shall not contact headform surface.	
Wet	Complied		

Table 4: Flame Resistance Test

Test	Result	SS 98 : 2013 Requirement (Clause 5.1.3)
Flame Resistance Test	Complied	The material of the shell shall not burn with the emission of flame after a period of 5 secs has elapsed after removal of the flame.

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Results:

Table 5: Chinstrap Anchorage Test

Test	Result	SS 98 : 2013 Requirement (Clause 5.1.4)
Chinstrap Anchorage Test	Complied	Artificial jaw shall be released at a force: 150 N ≤ Force ≤ 250 N due to failure of the anchorage(s) or breakage of chinstrap

Table 6: Electrical Properties

	Result			SS 98 : 2013 Requirement
Test	Test 1	Test 2	Test 3	(Clause 5.2.1)
Electrical Properties Test	Complied			Leakage current ≤ 1.2 mA

Table 7: Marking

Test	Result	SS 98 : 2013 Requirement
Marking	Complied	Clause 7.1 & Clause 7.2



