

TEST REPORT

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Date: 24 December 2021

Your Ref.: -

Our Ref.: MM-8500192913/OWD

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Subject : Batch testing of Industrial Safety Helmet submitted by Radius Safety Pte Ltd on 17 December 2021.

Tested for : **RADIUS SAFETY PTE LTD**

Date of Test : 21 December 2021 to 23 December 2021

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. Marking

**Description
of Sample**

: 08 pieces of industrial safety helmets with chin strap were randomly sampled at the premises of Radius Safety Pte Ltd from the following batch,

Batch Size	:	480 pieces
Brand / Model	:	JSP / EVO®3 Mid Peak (Vented)
Colour	:	White & Blue
Country of Origin	:	UK
Chin Strap	:	Black, white & red stripe elastic strap
Shell Mfg. Date	:	February 2021
Cargo Clearance Permit No.	:	IG1L275870Z



OW WEI DE
Testing Officer



CHEN YU
Manager (Mechanical Testing)
Mechanical Technology Division

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LA-1993-0051-C LA-1988-0144-D
LA-1993-0087-G LA-2000-0181-F
LA-1994-0068-A LA-2012-0519-E
LA-1987-0001-B LA-1987-0001-B-1

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

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. 472 pieces), were each labeled with a SETSCO SERVICES BATCH INSPECTED labels from B1012845 to B1013316.

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Results:**Physical Requirements****Table 1: Construction**

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

Performance Requirements**Table 2: Force Transmission Test**

Conditioning method	Result	SS 98: 2013 Requirement (Clause 5.1.1)
Hot	Complied	<ul style="list-style-type: none"> • Force \leq 5 kN • Crack \leq 50 mm
Wet	Complied	

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.



Results:**Performance Requirements (Cont'd)****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: $150\text{ N} \leq \text{Force} \leq 250\text{ N}$ due to failure of the anchorage(s) or breakage of chinstrap

Marking Requirements**Table 6: Marking**

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

