

TEST REPORT

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Setesco Services Pte Ltd
 18 Teban Gardens Crescent
 Singapore 608925
 Tel : (65) 6566 7777
 Fax: (65) 6566 7718
 www.setsco.com
 Business Reg. No. 196900269D

Date: 21 May 2019

Your Ref.: -

Our Ref.: MM-8500057478/AGK

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Subject : Batch testing of Industrial Safety Helmet submitted by PPE Distribution (S) Pte Ltd on 14 May 2019.

Tested for : **PPE DISTRIBUTION (S) PTE LTD**
 9004 Tampines St 93
 #03-124
 Singapore 528838

Date of Test : 15 May 2019 to 21 May 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. Marking

Description of Sample : 14 pieces of Industrial Safety Helmets with chin strap were randomly sampled at the premises of PPE Distribution (S) Pte Ltd from the following batch;

Batch Size	:	1000 pieces
Brand / Model	:	Delta Plus / Quartz Up IV ✓
Colour	:	White, Yellow & Blue
Country of Origin	:	China
Chin Strap	:	Black fabric
Manufacture Date of Shell	:	January & March 2019
Cargo Clearance Permit No.	:	-




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LA-1993-0051-C LA-1998-0144-D
 LA-1993-0067-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. 986 pieces), were each labeled with a SETSCO SERVICES BATCH INSPECTED labels from B725553 to B726538.



SAM AU
Testing Officer



CHEN YU
Assistant Manager (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	<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:**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

Table 6: Marking

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

