



Number: GZHT90415516

Applicant: WELLMAX PRODUCTS CO., LTD
NO.133-1, SYUFU RD., SOUTH DISTRICTION
402, TAICHUNG, R.O.C.TW.
Attn: JAY

Date: Feb 18, 2014

Sample Description:

Forty seven (47) pairs of submitted sample said to be Wellmax Composite Toe Cap 604.

Standard : EN ISO 12568: 2010
Size : UK 6, 7, 8, 9, 10, 11
Toe Cap : Wellmax Composite Toe Cap 604
Date Received/Date Test Started : Feb. 13, 2014

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou GDD Branch



Huang Ning, Andy
Assistant General Manager

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Tests Conducted (As Requested By The Applicant)

1 Impact Resistance Of Toe Caps (EN 12568:2010,4.2.3,200 Joules)

			<u>Requirement</u>	<u>Pass/Fail</u>
<u>Size 6</u>	Left :	26.0 mm	Min. Clearance 20.0 mm (#)	Pass
	Right:	27.5 mm	Min. Clearance 20.0 mm (#)	Pass
<u>Size 7</u>	Left :	28.0 mm	Min. Clearance 20.5 mm (#)	Pass
	Right:	27.5 mm	Min. Clearance 20.5 mm (#)	Pass
<u>Size 8</u>	Left :	28.5 mm	Min. Clearance 21.0 mm (#)	Pass
	Right:	28.5 mm	Min. Clearance 21.0 mm (#)	Pass
<u>Size 9</u>	Left :	28.0 mm	Min. Clearance 21.5 mm (#)	Pass
	Right:	28.5 mm	Min. Clearance 21.5 mm (#)	Pass
<u>Size 10</u>	Left :	29.5 mm	Min. Clearance 22.0 mm (#)	Pass
	Right:	29.5 mm	Min. Clearance 22.0 mm (#)	Pass
<u>Size 11</u>	Left :	> 30.0 mm	Min. Clearance 22.0 mm (#)	Pass
	Right:	> 30.0 mm	Min. Clearance 22.0 mm (#)	Pass

Remark: # = In Addition, The Toe Cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material (i.e. Through Which Light Can Be Seen).

2 Compression Resistance Of Toe Caps (EN 12568:2010, 4.2.4, 15 kN Load)

			<u>Requirement</u>	<u>Pass/Fail</u>
<u>Size 6</u>	Left:	> 30.0 mm	Min. Clearance 20.0 mm (#)	Pass
	Right:	> 30.0 mm	Min. Clearance 20.0 mm (#)	Pass
<u>Size 7</u>	Left:	> 30.0 mm	Min. Clearance 20.5 mm (#)	Pass
	Right:	> 30.0 mm	Min. Clearance 20.5 mm (#)	Pass
<u>Size 8</u>	Left:	> 30.0 mm	Min. Clearance 21.0 mm (#)	Pass
	Right:	> 30.0 mm	Min. Clearance 21.0 mm (#)	Pass
<u>Size 9</u>	Left:	> 30.0 mm	Min. Clearance 21.5 mm (#)	Pass
	Right:	> 30.0 mm	Min. Clearance 21.5 mm (#)	Pass
<u>Size 10</u>	Left:	> 30.0 mm	Min. Clearance 22.0 mm (#)	Pass
	Right:	> 30.0 mm	Min. Clearance 22.0 mm (#)	Pass
<u>Size 11</u>	Left:	> 30.0 mm	Min. Clearance 22.0 mm (#)	Pass
	Right:	> 30.0 mm	Min. Clearance 22.0 mm (#)	Pass

Remark: # = In Addition, The Toe Cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material (i.e. Through Which Light Can Be Seen).



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Tests Conducted (As Requested By The Applicant)

3 Impact Resistance After Chemical Aging Test Of Non-Metal Toe Caps (EN 12568:2010, 4.4, 200 Joules)

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect Of Alkali (1 mol/l NaOH × 23°C × 24 Hours)				
<u>Size 6</u>	Left	26.5 mm	Min. Clearance 20.0 mm (#)	Pass
	Right	27.0 mm	Min. Clearance 20.0 mm (#)	Pass

Remark: # = In Addition, The Toe Cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material (i.e. Through Which Light Can Be Seen).

4 Impact Resistance After Chemical Aging Test Of Non-Metal Toe Caps (EN 12568:2010, 4.4, 200 Joules)

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect of Acid (1 mol/l H ₂ SO ₄ × 23°C × 24 Hours)				
<u>Size 6</u>	Left	26.5 mm	Min. Clearance 20.0 mm (#)	Pass
	Right	27.0 mm	Min. Clearance 20.0 mm (#)	Pass

Remark: # = In Addition, The Toe Cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material (i.e. Through Which Light Can Be Seen).

5 Impact Resistance After Thermal Aging Test Of Non-Metal Toe Caps (EN 12568:2010, 4.4, 200 Joules)

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect Of Low Temperature (-20°C × 4 Hours, Then -6°C × 18 Hours)				
<u>Size 6</u>	Left	27.0 mm	Min. Clearance 20.0 mm (#)	Pass
	Right	27.5 mm	Min. Clearance 20.0 mm (#)	Pass

Remark: # = In Addition, The Toe Cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material (i.e. Through Which Light Can Be Seen).



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6 Impact Resistance After Thermal Aging Test Of Non-Metal Toe Caps (EN 12568:2010, 4.4, 200 Joules)

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect Of High Temperature (60°C × 4 Hours, Then 45°C × 18 Hours)				
<u>Size 6</u>	Left	26.0 mm	Min. Clearance 20.0 mm (#)	Pass
	Right	27.0 mm	Min. Clearance 20.0 mm (#)	Pass

Remark: # = In Addition, The Toe Cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material (i.e. Through Which Light Can Be Seen).

7 Impact Resistance After Chemical Aging Test Of Non-Metal Toe Caps (EN 12568:2010, 4.4, 200 Joules)

			<u>Requirement</u>	<u>Pass/Fail</u>
Effect Of Fuel Oil (2,2,4-Trimethylpentane × 23°C × 24 Hours)				
<u>Size 6</u>	Left	27.5 mm	Min. Clearance 20.0 mm (#)	Pass
	Right	27.0 mm	Min. Clearance 20.0 mm (#)	Pass

Remark: # = In Addition, The Toe Cap Shall Not Develop Sharp Edges Or Any Cracks Passing Through The Material (i.e. Through Which Light Can Be Seen).

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