

NINGBO TIANQI TECHNOLOGY CO., LTD
NO. 688 HENGSHAN WEST ROAD, BEILUN ZONE, NINGBO ZHEJIANG, CHINA, 315800

Sample Description : HELMET
Style / Item No. : T35-A
Size : 58cm-61cm
HPI (from basic plane) : 50mm For M-F2220
Manufacturer : NINGBO TIANQI TECHNOLOGY CO., LTD
Country of Origin : MADE IN CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Jun 23, 2020
Test Performing Date : Jun 23, 2020 to Jul 08, 2020
Test Performed : ASTM F1447-18 plus ASTM F1446-15b
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Arthur Mak
Authorized Signatory



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Guangzhou Branch Testing Center Headlines

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Number of Tested Sample: 8 piece(s) / size

Test Conducted: Based on **ASTM F1447-18** Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating.

Test Results: Details shown as following table

| Clause | Test Item / Test Requirement / Test Method | Test Result |
|---------------|---|---------------------|
| 8.2 | Projections Any unfaired projection extending more than 7 mm from the helmet's outer surface shall break away or collapse when impacted with forces equivalent to those produced by applicable impact-attenuation tests in Section 5. There shall be no fixture on the helmet's inner surface projecting more than 2 mm into the helmet interior except occipital stabilizers and foam fit pads. | Pass |
| 10 | Peak acceleration requirement | |
| 10.2 | The peak acceleration of any impact shall not exceed 300 g. | Pass See annex 1 |
| 11 | Retention System Testing | |
| 11.1 | The ambient helmet shall be subjected to the positional stability (roll-off) test in accordance with Test Methods F 1446, using a 4 kg drop mass from a height of 0.6 m, the retention system must remain intact and the helmet must remain on the headform. | Pass See annex 4 |
| 11.2.1 | The helmet shall satisfy the requirements of Test Methods F1446 and the retention system shall not elongate more than 30 ± 0.8 mm. | Pass See annex 2 |
| 12 | Labels and Warnings | |
| 12.1 | In addition to the labeling requirements outlined in Test Methods F1446, the helmet shall have one of the following inscriptions on an interior permanent label: "For use in recreational bicycling but not trick bicycling or downhill mountain bike racing." "For use in recreational roller skating but not trick roller skating or roller hockey." "For use in recreational bicycling or roller skating but not trick bicycling or roller skating, downhill mountain bike racing, or roller hockey." | Pass |

Test Conducted: Based on **ASTM F1446-15b** Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear

Test Results: Details shown as following table

| Clause | Test Item / Test Requirement / Test Method | Test Result |
|-------------|---|-------------|
| 12.2 | Configuration The helmet shall be constructed to reduce or minimize injury to that portion of the head that is within an area above the test line and to remain on the wearer's head during impact. | Pass |
| 12.3 | Materials Materials known to cause skin irritation or disease cannot be used in the helmet. Lining materials, if used, may be detachable for washing. If hydrocarbons, cleaning fluids, paints, transfers or other additions will affect the helmet adversely, a warning shall be provided. | NT |



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| Clause | Test Item / Test Requirement / Test Method | Test Result |
|---------------|---|---------------------|
| 12.4 | Labeling Each helmet shall contain labels with at least the following information, using terms and symbols commonly known and visible to users. The label(s) should be likely to remain on the helmet and legible throughout the intended design life of the helmet. | Pass |
| 12.4.1 | The number of the standard specification which the manufacturer certifies that it meets, including the two-digit version year appended to the number. | Pass |
| 12.4.2 | Model designation. | Pass |
| 12.4.3 | Name of manufacturer. | Pass |
| 12.4.4 | Month and year of manufacture. | Pass |
| 12.4.5 | A label that warns the user that no helmet can protect against all possible impacts and that for maximum protection the helmet must be fitted and attached properly to the wearer's head in accordance with the manufacturer's fitting instructions. | Pass |
| 12.4.6 | A label that warns the user that the helmet may, after receiving an impact, be damaged to the point that it is no longer adequate to protect the head against further impacts, and that this damage may not be visible to the user. This label should also state that a helmet that has sustained an impact should be returned to the manufacturer for competent inspection or be destroyed and replaced. | Pass |
| 12.4.7 | A label that warns the user that the helmet can be damaged by contact with common substances (for example, certain solvents, cleaners, hair tonics, etc.) and that this damage may or may not be visible to the user. This label should also list any recommended cleaning agents or procedures, or both. | Pass |
| 12.4.8 | Any other warnings, cautions, or instructions specified in the individual standard specification. | Pass |
| 12.4.9 | Each helmet shall have accompanying fitting and positioning instructions including graphic representation of proper positioning. | Pass |
| 12.5 | Projections | |
| 12.5.1 | Interior Projections Any internal rigid projections that can contact the wearer's head during impact shall be protected by some means of cushioning or force spreading. Visually inspect a single helmet form the set form the presence of any interior projections. Verify that if projections are present they are protected | Pass |
| 12.6 | Vision | |
| 12.6.1 | Peripheral Vision The helmet to be tested shall be placed on a reference headform the same size as the test headform to be used. The helmet shall be centered laterally and seated firmly on the reference headform with the preload ballast on the helmet, then positioned according to the HPI. Ensure that the brow is parallel to the basic plane. Measure the peripheral vision on a single sample of each helmet set. The peripheral vision is measured horizontally to each side of the midsagittal plane through Point K. The vision shall be unobstructed through an angle on either side of the midsagittal plane from Point K as identified in the individual performance standards. | Pass See annex 3 |

Remark: 1. NA = Not applicable.
2. NT = Not tested as per client's request.



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Impact attenuation instrument system check:

| Systems check | Trial drop | Drop Height (cm) | VEL. m/sec | Milliseconds at | | |
|---|------------|------------------|------------|-----------------|-----------------------------|-------|
| | | | | Peak G | 150 g | 200 g |
| Pre-test | 1 | 158.6 | 5.42 | 401.0 | 2.62 | 2.22 |
| | 2 | 158.7 | 5.41 | 401.1 | 2.62 | 2.22 |
| | 3 | 158.8 | 5.42 | 401.2 | 2.63 | 2.23 |
| Pretest average | | -- | -- | 401.1 | -- | -- |
| Post test | 1 | 158.3 | 5.42 | 401.2 | 2.61 | 2.21 |
| | 2 | 158.4 | 5.42 | 401.3 | 2.62 | 2.21 |
| | 3 | 158.2 | 5.43 | 401.1 | 2.62 | 2.22 |
| Post test average | | -- | -- | 401.2 | -- | -- |
| Difference between pretest and post test averages | | | | 0.1g | Difference not to exceed 5% | |

Model: T35-A

Size: 58-61 cm

Headform: M F2220

HPI (from basic plane): 50 mm

Annex 1: Impact energy attenuation test data

Ambient temperature at time of test: 22.5 °C

| Condition | Mass (g) | Impact Loc. | Anvil | Vel.-m/sec | Peak'G | Result |
|------------------------|----------|-------------|---------------|------------|--------|--------|
| Ambient Condition No.1 | 476 | Front | Flat | 6.25 | 210.3 | Pass |
| | | Left | Flat | 6.22 | 232.6 | Pass |
| | | Crown | Hemispherical | 4.81 | 116.7 | Pass |
| | | Rear | Hemispherical | 4.80 | 114.1 | Pass |
| High Temperature No.2 | 476 | Left | Flat | 6.26 | 226.8 | Pass |
| | | Crown | Flat | 6.22 | 191.2 | Pass |
| | | Front | Hemispherical | 4.80 | 131.6 | Pass |
| | | Rear | Hemispherical | 4.79 | 114.3 | Pass |
| Low Temperature No.3 | 477 | Crown | Flat | 6.25 | 206.5 | Pass |
| | | Rear | Flat | 6.24 | 194.6 | Pass |
| | | Front | Hemispherical | 4.78 | 104.6 | Pass |
| | | Left | Hemispherical | 4.80 | 125.8 | Pass |
| Water Immersion No.4 | 478 | Left Front | Flat | 6.24 | 212.4 | Pass |
| | | Left Rear | Flat | 6.25 | 193.7 | Pass |
| | | Right Front | Hemispherical | 4.81 | 121.6 | Pass |
| | | Right Rear | Hemispherical | 4.80 | 108.4 | Pass |
| Ambient Condition No.5 | 475 | Front | Curbstone | 4.80 | 113.8 | Pass |
| High Temperature No.6 | 474 | Left | Curbstone | 4.81 | 128.6 | Pass |
| Low Temperature No.7 | 478 | Crown | Curbstone | 4.79 | 122.4 | Pass |
| Water Immersion No.8 | 476 | Rear | Curbstone | 4.80 | 106.5 | Pass |



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Annex 2: Retention system strength test data

Ambient temperature at time of test: 22.5 °C

| Condition | Elongation (mm) | Result |
|--------------------------|-----------------|--------|
| High Temperature No.2 | 23.5 | Pass |
| Low Temperature No.3 | 24.1 | Pass |
| Water Immersion No.4 | 24.6 | Pass |

Annex 3: Peripheral vision test results:

Ambient temperature at time of test: 22.5 °C

Positioning Index: 45 mm

Peripheral Vision: >105 degrees

Annex 4: Position stability test results:

Ambient temperature at time of test: 22.5 °C

| Condition | Test description | Result |
|---------------------------|--|--------|
| Ambient Condition No.1 | Helmet remained on the test headform after testing | Pass |

Sample Photo(s):

Front view



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| | |
|-----------|--|
| Side view |  |
| Back view |  |



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| | | |
|--|---|--|
| Label | <p>Model: T35-A Name: Lot number: 42420 Helmet Sizing (Circumference) - Adult (58-61cm) Certification: ASTM F1447-18/CAN ICES-5/NMB-5</p> | <p>Made in China by / Fabriqué en Chine par: Ningbo Tianqi Technology Co., Ltd. Helmet fitting/ajustement du casque</p>  |
| | <p>Modèle: T35-A Nom: Numéro du lot: 42420 Taille du casque (circonférence) - Adulte (58-61cm) Certification: ASTM F1447-18/CAN ICES-5/NMB-5</p> | |
| | <p>WARNING! No helmet can prevent all head injuries. Even in very low speed accidents, serious injury or death can occur. For best protection, follow manual fitting instructions: Helmet must fit snug. Wear chin strap comfortably tight against throat. Fasten buckle securely. Destroy and replace helmet after impact. Protection may not be adequate in future impacts. Damage can be visible. Don't modify this helmet as it could reduce the helmet's ability to protect. Do not clean with solvents, bleaches, or strong detergents. This can damage the helmet, sometimes invisibly. Use mild soap and water only. Read manual. This helmet should not be painted nor should decals be applied unless they are approved by the manufacturer, as they may weaken the shell structure. For use in recreational bicycling but not trick bicycling or down hill mountain bike racing.</p> | <p>FRONT →</p> |
| | <p>WARNING! This helmet should not be used by children while climbing, or doing other activities when there is a risk of hanging if the child gets strapped wearing the helmet. Modifying or removing any of the original components of the helmet, or adapting for the purposes of fitting accessories other than as recommended by the Manufacturer is dangerous. The visor has not undergone testing to this standard. The helmet is tested without the visor attached. This helmet has been designed for use by cyclists or cycle passengers aged five years and older. It must not be used by cyclists or cycle passengers under the age of five years. Complies with ASTM Safety Standard for bicycle Helmets. IMPORTED BY TRILEAF DISTRIBUTION TRIFEUIL TORONTO, CANADA M4S 2B8 MADE IN CHINA</p> | <p>ADULT ADULTE 58-61cm</p> |
| | <p>ATTENTION! Aucun casque ne peut empêcher les blessures à la tête. Même dans des accidents à très faible vitesse, des blessures graves ou la mort peuvent survenir. Pour une meilleure protection, suivez les instructions de mise en place du manuel: le casque doit être bien ajusté. Portez une mentonnière confortablement serrée contre la gorge. Serrez la boucle de manière sécuritaire. Détruisez et remplacez le casque après l'impact. La protection peut ne plus convenir à de futurs impacts. Les dommages peuvent être visibles. Ne modifiez pas ce casque puisque cela pourrait réduire sa capacité de protection. Ne nettoyez pas avec des solvants, des javellissants ou des détergents puissants. Cela pourrait endommager le casque, parfois de manière invisible. N'utilisez qu'un savon doux et de l'eau. Lisez le manuel. Ne pas peindre ni apposer des décalcomanies sur ce casque, sauf si le fabricant l'approuve, car cela pourrait fragiliser la structure de la coque. Pour utilisation avec le vélo récréatif mais non avec le vélo de trucs ou les vélos de montagne de course.</p> | <p>AVANT →</p> |
| <p>ATTENTION! Ce casque ne devrait pas être utilisé par des enfants lorsqu'ils grimpent ou s'adonnent à d'autres activités s'il y a un risque de pendaison si l'enfant reste pris à cause du port du casque. Il est dangereux de modifier ou d'enlever des composantes originales du casque, ou de l'adapter à d'autres fins ou accessoires de que ce qui est recommandé par le fabricant. La visière n'a pas fait l'objet d'essais pour déterminer si elle est conforme à cette norme. Le casque a été mis à l'épreuve sans visière. Ce casque a été conçu pour les cyclistes ou leurs passagers âgés de cinq ans et plus. Il ne doit pas être utilisé par les cyclistes ou leurs passagers de moins de cinq ans. Ce casque est conçu pour le vélo, la planche à roulettes ou le patin à roues alignées. Conforme aux normes de sécurité de la ASTM. pour les casques de vélo. IMPORTÉ PAR TRILEAF DISTRIBUTION TRIFEUIL TORONTO, CANADA M4S 2B8 FABRIQUÉ EN CHINE</p> | <p>ADULT ADULTE 58-61cm</p> | |



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| <p>Instruction</p> | <p>ALL SAFETY EQUIPMENT HAS LIMITATIONS. PLEASE READ AND FOLLOW ALL INSTRUCTIONS. CAREFULLY BEFORE USING YOUR HELMET.</p> <p>HELMET USE AND CERTIFICATION: ASTM - Helmet is intended for use only for recreational bicycling and meets the standard of safety requirements of the American Society for Testing and Materials.</p> <p>LIMITED IMPACT PROTECTION: Helmets reduce or prevent many injuries. Impact forces even in a common low speed accident can result in serious injury or death. Energy absorbing materials used in helmets crush on impact. Sometimes the blow can crush the materials completely. When this happens, some of the force is transferred to the head. If the force is great enough it can result in injury or death. As every accident is different it is impossible to predict what might happen. Any helmet subjected to severe impact should be discarded or destroyed.</p> <p>HELMETS CAN'T PREVENT ALL HEAD INJURIES: Some head injuries are not caused by impact at all but by other forces. You can scramble an egg just by shaking it. You don't have to break the shell to destroy the contents. Helmets cannot prevent this type of injury. This helmet is intended to help protect against bumps, scratches and concussions.</p> <p>HELMETS CAN'T PROTECT WHAT THEY DON'T COVER: The helmet will not protect the neck or any area of the head it doesn't cover. Always wear a helmet low in the front to protect the forehead. Ensure the helmet fits snugly and the straps are adjusted to hold the helmet firmly in place when tightly fastened.</p> <p>YOU SHOULD ALWAYS:</p> <ol style="list-style-type: none"> 1. Wear your helmet low in the front to protect the forehead. 2. Fasten the buckle and tighten the chin strap. 3. Check your adjustments every time you wear the helmet. 4. Inspect your helmet regularly for signs of wear and damage. 5. Replace your helmet immediately if it shows signs of wear or damage. Helmets have a limited life span. 6. Replace your helmet after an accident even if there are no visible signs of damage. 7. Clean your helmet with a mild soap and water only. 8. Store Helmet in cool dry place. 9. Wear helmet whenever you ride. 10. Wear helmet designed for what you are doing. 11. Ride safely. <p>YOU SHOULD NEVER:</p> <ol style="list-style-type: none"> 1. Wear a helmet that has been in an accident. 2. Loan your helmet to anyone. 3. Wear somebody else's helmet. 4. Wear the helmet unfastened. 5. Wear your helmet tipped back to expose your forehead. 6. Wear anything under the helmet. 7. Wear the helmet on any motor vehicle. 8. Clean your helmet with any chemical cleaners. 9. Store the helmet in any hot or damp places. 10. Take unnecessary risks because you're wearing a helmet. 11. Modify or remove any original parts of the helmet other than those recommended by the manufacturer. 12. Do not paint or apply stickers to helmet. <p>PARENTS:</p> | |
| <p>Instruction</p> | <p>PARENTS: This helmet is NOT a toy. Do not allow your children to use while climbing or in other activities where a risk of strangulation exists.</p> <p>FITTING THE HELMET TO YOUR HEAD: This helmet can only protect you if it fits well. Be sure to try on different sizes and choose the size which feels secure and comfortable on your head.</p> <p>FOLLOW THESE FIVE SIMPLE STEPS TO LEARN HOW TO PROPERLY FIT AND WEAR YOUR HELMET. YOU WILL NEED A MIRROR.</p> <p>STEP 1: WEAR IT IN THE PROPER POSITION Always wear the helmet low in the front to protect your forehead. See FIG 1. Make sure the helmet is seated all the way down on the head. You want the top of your head to be touching the top padding inside the helmet.</p> <p>IMPORTANT: All fitting adjustments MUST be made with the helmet in the proper position. Failure to do so will result in a poor fit. This will allow the helmet to move out of position or come off in an accident.</p> <p>STEP 2: ADJUSTING THE STRAPS The front and rear straps should join at the point slightly below and in front of (but not covering) the ears. SEE FIG 2.</p> <p>STEP 3: ADJUSTING THE CHIN STRAP Always wear the helmet with the chin strap buckle fastened and the strap pulled tight. Make sure the strap is well back against the throat, NOT on the point of the chin. Straps worn on the point of the chin increase the chance of the helmet coming off in an accident. Position the buckle away from your jawbone. FIG 3 and 4 show how to fasten and release the buckle and FIG 5 shows proper placement of the chin strap.</p> <p>WARNING! Make sure the loose end of the strap passes through the rubber "o" ring. If it does not, the strap may slide loose and the helmet can come off accidentally. SEE FIG 6.</p> | |



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| <p>Instruction</p> | <p>STEP 4: GETTING THE CORRECT FIT The helmet fits correctly when it is held firmly but comfortably in place by the interior fit pads. Adjustments are made by varying the thickness of the interior pads and by varying the position and tension of the straps. The front fit pad should lightly touch your forehead. If it does not, replace it with the thicker pad provided. If it still does not, try a smaller size helmet. When correctly adjusted you should feel a slight pressure at the back of your head and the front pad will push firmly, but comfortably against your forehead.</p> <p>STEP 5: CHECKING THE FIT AND ADJUSTMENTS Before using the helmet, make sure it fits correctly. The straps are correctly adjusted and the chin strap is tight enough. Put the helmet on in the correct position. Fasten the chin strap and pull tight. Stand in front of a mirror.</p> <p>CHECK THE FIT: Grab the helmet with both hands and twist it to the left and to the right. If the helmet fits correctly, the skin on the forehead will move as the helmet moves. If it does not, the helmet is too loose, return to step 4.</p> <p>CHECK THE STRAPS: Grab the helmet with both hands and try to remove it by rolling the helmet forwards and backward as far as you can. Make a serious effort. This is IMPORTANT. If you can roll it off your head completely in either direction, roll it forward so it blocks your vision, or roll it backward far enough to expose the forehead, it doesn't fit right. Repeat steps 2 and 3 until helmet movement is minimal.</p> <p>WARNING!!!! If you cannot adjust the helmet to fit properly according to step 5, DO NOT USE THIS HELMET. Replace it with a different size or model.</p> <p>TAKE A TEST RIDE: Once you are satisfied that the helmet fits correctly and the straps are properly adjusted and tightened, take a short test ride. Pay attention to overall comfort and helmet stability while riding. Make any minor adjustments to the fit pads and straps to improve comfort and stability.</p> <p>CLEANING: Helmets are made of materials that can be damaged by many common cleaners. Petroleum based solvents are especially dangerous. They can damage a helmet so that its protective capabilities are significantly reduced. Many times this damage is not visible. For best results clean the helmet using a soft cloth or sponge, warm water and mild soap.</p> <p>STORAGE: After each use allow the helmet to air dry and then store in a cool dry place. Excessive heat can damage the helmet. In direct sunlight, dark gear bags and automobile trunks can get hot enough to cause heat damage. Damaged helmets will appear to have an uneven or bubbly surface. Helmets should not be loosely stacked or in contact with any contaminants.</p> <p>WARNING! DO NOT USE DAMAGED HELMETS.</p> <p>TRANSPORTATION: Helmets should be transported in a manner that is not likely to reduce the adequate protection afforded. During transportation the helmet must not be stacked or compressed. Helmets should not be subjected to abrasion, contamination or prolonged exposure to direct sunlight.</p> <p>SAFETY: 1. Ride Safely. YOU are responsible for your own safety. 2. Always wear your helmet even on a short ride. Many accidents happen close to home. 3. Watch carefully for drivers turning right in front of you. Drivers often report that they never saw the rider. 4. Wear bright coloured clothing. 5. Obey traffic laws. 6. Don't ride at night without proper lighting and reflectors.</p> <p>If your helmet is equipped with the following two types of LED Light, please read all instructions and warnings prior to use.</p> |
| <p>Instruction</p> | <p>LIGHT FUNCTIONS: The LED light has two light modes: Press once for steady continuous light mode Press twice for strobing (energy saving) mode Press again to turn off</p> <p> </p> <p>REMOVAL AND ATTACHMENT OF THE LED LIGHT: To remove the LED light, hold the top and bottom of the light housing with the thumb and index finger. Pull out firmly to detach from the helmet. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.</p> <p>WARNINGS 1) Keep batteries out of the reach of children. 2) Do not expose batteries to too high temperature (light of the sun, fire, etc.) 3) Remove the batteries from the device before discarding it at the end of its life time. Please ensure the appropriate disposal of these batteries. 4) Do not force the discharge of the battery.</p> |
| <p>Instruction</p> | <p>     </p> <p>FIGURE 1 FIGURE 2 FIGURE 3 FIGURE 4 FIGURE 5 FIGURE 6</p> |



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| <p>Front test line for (M) F2220 head form</p> |  |
| <p>Side test line for (M) F2220 head form</p> |  |



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Guangzhou Branch Testing Center Hardlines

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Rear test line for
(M) F2220 head
form



End of Report



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