

Test Report

Number: SZHH01741046

Applicant: D-H-G KNAUER GMBH
KLEINES WEGLE 271691
FREIBERG A.N. GERMANY

Date: Jun 07, 2023

Attn: LEO CHEN

Sample Description:

Eight (8) pieces of submitted sample said to be :

Item Name	:	Bicycle Helmet
Item/Model No.	:	REACH-DT
Size	:	L
Helmet size scope per model	:	58-62CM (cm)
Material for Helmet	:	Shell PC Liner Expanded Poly Styrene
Date Manufactured	:	2022.10
Manufacturer	:	D-H-G Knauer GmbH
Buyer	:	D-H-G Knauer GmbH
Country of Origin	:	China
Country of Destination	:	Germany
Date Sample Received	:	Oct 17, 2022
Testing Period	:	Oct 17, 2022 ~ Jun 07, 2023



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.





中国认可
国际互认
检测
TESTING
CNAS L0327

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Conclusion:

Tested sample
Submitted helmets

Standard
EN 1078:2012+A1:2012 Standard Specification for Helmets
Worn by Users of Pedal Cycles, Skateboards and Roller
Skates

Result
Pass

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Andy, Fu Bo
Title: Asst. Manager
CNAS Approved Signatory



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1 Standard Specification for Helmets Worn by Users of Pedal Cycles, Skateboards and Roller Skates

As per EN 1078:2012+A1:2012: standard specification for helmets worn by uses of pedal cycles, skateboards and roller skates.

Number of samples tested: Eight (8) sets.

Helmets size: 58-62cm

Test headform: 605mm / 625mm (EN960:2006)

Clause	Test Items	Result
4.1	Materials For those parts of the helmet coming into contact with the skin, the material used should be known not to undergo appreciable alteration from contact with sweat or with substances likely to be found in toiletries. Materials shall not be used which are known to cause skin disorders.	
4.2	Construction The helmet normally consists of a means of absorbing impact energy and means of retaining the helmet on the head in an accident. The helmet should be durable and withstand handling. The helmet shall be so designed and shaped that parts of it (visor, rivets, ventilators, edges, fastening device and the like) are not likely to injure the user in normal use. NOTE Helmets should: - have low weight; - be ventilating; - be easy to put on and take off; - be usable with spectacles; - not significantly interfere with the ability of the user to hear traffic noise.	P
4.3	Field of vision When tested in accordance with 5.7 there shall be no occultation in the field of vision bounded by angles as follows (see Figure 1 in EN 1078:2012+A1:2012): - horizontally: min. 105° from the longitudinal vertical median plane to the left and right hand sides; - upwards: min. 25° from the reference plane; - downwards: min. 45° from the basic plane.	P (Horizontally: >105° Upwards: >25° Downwards >45°)
4.4	Shock absorbing capacity The helmet shall give protection to the forehead, rear, sides, temples and crown of the head. When tested in accordance with 5.3 and 5.4 the peak acceleration shall not, for each impact, exceed 250 g for the velocity of 5,42 (+0.1, 0), m/s on the flat anvil, and 4,57 (+0.1, 0)m/s on the kerbstone anvil. NOTE These are theoretically equivalent to 1 497 mm and 1 064 mm drop heights respectively.	P (See appendix)





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Clause	Test Items	Result
4.5	Durability After being tested the helmet shall not exhibit damage that could cause significant injury to the wearer (sharp edges, points).	P (No damage & significant injury)
4.6	Retention system	
4.6.1	General Means shall be provided for retaining the helmet on the wearer's head. All parts of the retention system shall be securely attached to the helmet.	P
4.6.2	Chin strap The chin strap shall not include a chin cup. Any chin strap shall be no less than 15 mm wide (W). Chin straps may be fitted with means of enhancing comfort for the wearer.	P (W: 15.5mm)
4.6.3	Fastening device Any retention system shall be fitted with a device to adjust and maintain tension in the system. The device shall be capable of adjustment so that the buckle does not sit on the jaw bone.	P
4.6.4	Colour No part of the retention system shall be coloured green. NOTE It is recommended that the opening mechanism be marked with red or orange colour.	P (Black)
4.6.5	Strength When tested in accordance with 5.5, the dynamic extension of the retention system shall not exceed 35 mm and the residual extension shall not exceed 25 mm. For this purpose, extension includes slippage of the fastening device. Damage to the retention system shall be accepted provided that the above requirements are met. NOTE In this test, slippage of the fastening device can be measured and recorded separately from other contributions to the extension but this is for information only and is not subject to a separate requirement.	P (See appendix)
4.6.6	Effectiveness When tested in accordance with 5.6 the helmet shall not come off the headform.	P (Did not come off)
4.6.7	Ease of release Following the strength test in accordance with 5.5 and with the load still applied, it shall be possible to open the release system with one hand.	P





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Clause	Test Items	Result
5.2	<p>Inspection and determination of mass Inspect the helmet to ascertain whether it is suitable for its intended purpose and fulfils the general requirements in 4.2.</p> <p>Determine the mass of the helmets of the same size submitted for testing. Calculate and record the mean value in g rounded off to the nearest 10 g, stating the size of the helmet.</p>	P (See appendix)
6	<p>Marking Each helmet shall be marked in such a way that the following information is easily legible by the user and is likely to remain legible throughout the life of the helmet:</p> <ul style="list-style-type: none"> a) number of this European Standard; b) name or trademark of the manufacturer; c) designation of the model; d) designation, which shall be one or more of the following: Helmet for pedal cyclists, skateboarders or roller skaters; e) size or size range of the helmet, quoted as the circumference (in centimeters) of the head which the helmet is intended to fit; f) weight of the helmet (the average mass in grams determined according to 5.2); g) year and quarter of manufacture; h) following text: <p>"Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet."</p> <p>In addition, if the helmet has components made of material which are known to be adversely affected by contact with hydrocarbons, cleaning fluids, paints, transfers or other extraneous additions, the helmet shall carry an appropriate warning.</p>	P
	<p>If there is a consumer sales packaging, the information specified in a), b), d) and h) shall also be given on that package. The text shall be of minimum font size 12.</p>	P





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Clause	Test Items	Result
7	<p>Information supplied by the manufacturer</p> <p>With every helmet, clear information in the language of the country of sale shall be given as follows:</p> <p>a) that the helmet can only protect if it fits well and that the buyer should try different sizes and choose the size which feels secure and comfortable on the head;</p> <p>b) that the helmet should be adjusted to fit the user, e.g. the straps positioned so that they do not cover the ears, the buckle positioned away from the jawbone and the straps and buckle adjusted to be both comfortable and firm;</p> <p>c) how the helmet should be positioned on the head to ensure the intended protection is provided (e.g. hat it should be placed so as to protect the forehead and not be pushed too far over the back of the head);</p> <p>d) that a helmet cannot always protect against injury;</p> <p>e) that a helmet subjected to a severe impact should be discarded and destroyed;</p> <p>f) a statement of the danger of modifying or removing any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer.</p>	P

Abbreviation: P = Pass

Appendix:

Section 5.2 – Inspection and determination of mass

Sample No.	Mass (g)
1	420.4
2	419.9
3	417.3
4	418.4
5	427.9
6	431.0
7	430.4
8	427.8
Average(rounded off to nearest 10g)	424.1 (420)



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Section 4.4—Shock absorbing capacity

Ambient temperature at time of test: 22.2°C

Test headform: 605mm (EN960:2006)

Sample No.	Environment Impact	Test anvil	Location Impact	Velocity (m/s)	Peak (Gn)	Compliant
1	High	Kerbstone	Rear	4.59	116.3	Pass
		Flat	Front	5.44	176.9	Pass
2	Low	Flat	Crown	5.44	201.7	Pass
		Kerbstone	Front	4.58	112.0	Pass
3	Artificial ageing	Kerbstone	Crown	4.59	113.3	Pass
		Flat	Right	5.51	180.6	Pass

Test headform: 625mm (EN960:2006)

Sample No.	Environment Impact	Test anvil	Location Impact	Velocity (m/s)	Peak (Gn)	Compliant
5	High	Kerbstone	Right	4.61	93.6	Pass
		Flat	Left	5.44	170.6	Pass
6	Low	Flat	Crown	5.51	194.9	Pass
		Kerbstone	Rear	4.58	116.6	Pass
7	Artificial ageing	Kerbstone	Front	4.58	93.7	Pass
		Flat	Rear	5.45	193.6	Pass

Section 4.6.5—Retention system strength

Test headform: 605mm (EN960:2006)

Sample No.	Dynamic extension (mm)	Residual extension (mm)	Compliant
2	30.7	22.8	Pass
3	16.3	14.9	Pass

Test headform: 625mm (EN960:2006)

Sample No.	Dynamic extension (mm)	Residual extension (mm)	Compliant
6	18.7	13.7	Pass
7	28.1	16.2	Pass



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Photos for reference



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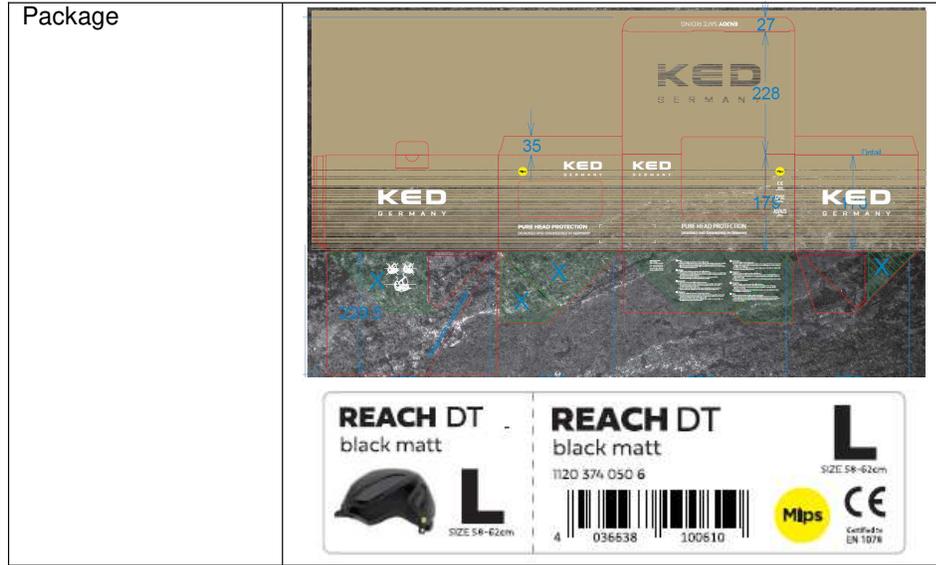
<p>Bottom view</p>	
<p>Label</p>	



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<p>Instruction</p> <p>Der Schutz, den ein Helm gibt, hängt von den Umständen des Unfalls ab, wobei das Tragen eines Schutzhelmes nicht immer einen tödlichen Unfall, oder langame Invalidität verhindert.</p> <p>BENUTZEN SIE IMMER EINEN HELM BEIM RADSPORT UND FAHREN SIE VORSICHTIG; DER HELM KANN NUR SCHÜTZEN, WAS ER BEDECKT! Tragen Sie Ihren Helm immer in der richtigen Position. Kein Helm kann den Hals oder unbedeckte Stellen des Kopfes schützen.</p> <p>WARNHINWEISE! DIE HELME DÜRFEN NICHT VON KINDERN BEIM KLETTERN ODER BEI ANDEREN SPIELEN GETRAGEN WERDEN, BEI DENEN STRANGULIERUNGSGEFÄHRE BESTEHT.</p> <p>Die EU-Konformitätserklärung für diesen Helm finden Sie unter: https://kedquarter.kodhaad.de/signaturen/KED_WEGACH_EC.pdf</p> <p>10. Entsorgung Entsorgen Sie die Verpackung sortentworf. Geben Sie Papp- und Karton zum Altpapier. Folien in die Wertstoffsammlung. Batterien dürfen nicht im Hausmüll entsorgt werden!</p> <p>11. Garantie Sie erhalten zwei Jahre Garantie auf Material und Herstellung. Die Garantie entrichtet sich NICHT auf normalen Verschleiß oder Abnutzung oder Veränderungen am Produkt durch den Kunden oder Schaden, die durch Unfälle oder unsachgemäßen Gebrauch entstanden sind. Zur Prüfung der Gültigkeit von Garantieansprüchen ist der original Kaufbeleg mit Händlerstempel und Kaufdatum erforderlich.</p>	<p>GB INSTRUCTION MANUAL</p> <p>Thank you for choosing a KED helmet. Protective helmets are personal protective equipment and help prevent head injuries or at least significantly reduce them. Please take some time to read the following information and adjust your helmet; it will benefit your safety and ensure the highest level of comfort. Detailed information and illustrations can be found on the front pages.</p> <p>1. General information This bike helmet represents the best possible protection for the head against external damage and meets the latest technological standards. However, no guarantee can be provided for the total prevention of injuries. This bike helmet complies with the European standard EN 1078. The helmet complies with the European Regulation (EU) 2016/425 and therefore bears the CE mark. As part of this standard, the helmets are tested for shock absorption, the effectiveness of the retention system, as well as the protection zones and the field of vision.</p> <p>2. Selecting the right helmet size A helmet can only protect the wearer if it fits properly. Measure your head circumference at the widest point and then select the appropriate size. The dimensions can be found on a label inside the helmet. The helmet must feel secure and comfortable on the head. Try several helmets and you will notice some differences right away. Take a look in the mirror too; the helmet should suit you.</p> <p>3. Adapting the size adjustment system A good fit is a prerequisite for the best possible protection. This is why the helmet is equipped with a K-FIT adjustment system. By turning the adjustment wheel you can set the head ring to suit you. Turning the wheel in the '+' direction tightens the head ring, turning the wheel in the '-' direction loosens the head ring (see illustration 2). The helmet is also equipped with a height adjustment function (see illustration 3).</p> <p>4. Correct positioning Always put your helmet on your head horizontally so that your forehead is protected but your view is not impaired. Your helmet should also not sit pushed backwards over the head (see illustration 1).</p>	<p>5. Firm fit You can check that your helmet is sitting firmly by lightly shaking your head while the chinstrap is undone. The helmet should not move about. An optimal fit is necessary for the helmet to fully achieve its safety function.</p> <p>6. Adjusting the chinstrap a) Close the strap-in clip (see illustration 3). Slide the strap tensioner (see illustration 4) so that the front and rear strap come together below the ear, and centre the snap lock below the chin. If the straps are not tight and closely fitted, you will need to re-tighten the excess length of the strap. Repeat this process until the strap system is tight and closely fitted. The snap lock must not be directly on the chin. b) The chinstrap should fit tightly but not impair your ability to breathe or swallow.</p> <p>7. Extras 7.1 Light The K-FIT adjustment system is equipped with a flashing light. You can turn the flashing light on and off by pressing it in the middle. The following functions are available: Press once for a continuous light, press twice for a flashing light, press three times to turn off the light. Changing the battery: use a slender Philips screwdriver to open the compartment (see illustration 7), remove the circuit board and replace the battery).</p> <p>8. Care, cleaning and storage The comfort padding can be cleaned using a damp cloth. Use a mild soap solution or heavily diluted delicate detergent as the cleaning agent. The comfort padding and straps should be dried at room temperature. The helmet shell should be cleaned using lukewarm water and a mild soap solution. Do not use any solvents, e.g. thinner or similar. Excessive temperatures or strong UV radiation can damage your helmet. You should therefore not store your helmet above 60°C, a temperature which can be reached on the rear shelf of a car for example. Do not place it directly onto or near a heat source such as an oven. The helmet should simply be stored in a dry place. The helmet should be checked for visible defects at regular intervals. Small scratches do not affect the protective effect of your helmet. Only use original parts for repairs. Please contact your retailer.</p> <p>9. Safe use This helmet is only suitable for cycling and roller skating. It is not suitable for other sports such as skiing or driving motorcycles and mopeds. Before starting your trip, ensure the helmet is sitting properly on your head. The latch system of the chinstrap must always be fully closed. The straps must be tight. Please also check the same for any children accompanying you. The helmet must not be painted, varnished or adorned with stickers. Paints, varnishes or stickers may contain components that adversely affect the stability of the helmet and its protective effectiveness. Do not make any changes to the helmet shell. Never drill into it or screw objects into it. In the event of a fall or a stronger impact, the protective effect of the helmet shall be severely impaired, even if no external damage can be seen. You must therefore replace a helmet after an accident and never use it again! You should replace the helmet after a maximum of 5 years. Please travel safely when wearing the helmet and do not undertake any unnecessary risks. DO NOT TRAVEL FAST - YOU MAY INJURE YOURSELF! The protection offered by a helmet depends on the circumstances of the accident; wearing a protective helmet cannot always prevent a fatal accident or prolonged disablement. ALWAYS WEAR A HELMET DURING CYCLING SPORT AND TRAVEL. CAUTIOUSLY THE HELMET CAN ONLY PROTECT WHAT IT COVERS! Always wear the helmet in the correct position. No helmet can protect the neck or uncovered areas of the head.</p> <p>WARNING! HELMETS MUST NOT BE WORN BY CHILDREN DURING CLIMBING OR OTHER ACTIVITIES IN WHICH THERE IS A</p>
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	<p>RISK OF STRANGULATION.</p> <p>It is dangerous to modify or remove any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer.</p> <p>The EU conformity declaration for this helmet can be found at: https://kedquarter.kedahead.de/signature/KED_REACH_EC.pdf</p> <p>10. Disposal</p> <p>Dispose of the packaging according to the respective material. Dispose of cardboard and cardboard as waste paper and plastic sheets in the recycling bin.</p> <p>Batteries must not be disposed of as household waste!</p> <p>11. Warranty</p> <p>You receive a two-year warranty for material and manufacturing defects. The warranty does NOT cover regular wear and tear, changes to the product made by the customer, or damage caused by accidents or improper use. The original sales receipt with the retailer's stamp and date of sale is required to verify the validity of warranty claims.</p>	<p>F MANUEL D'INSTRUCTIONS</p> <p>Merci d'avoir acheté un casque KED. Les casques de sécurité font partie des équipements de protection individuelle et contribuent à prévenir ou du moins à réduire considérablement les blessures à la tête. Veuillez prendre le temps de lire les instructions suivantes et de régler votre casque. Il est destiné à garantir votre sécurité et vous apporte le meilleur confort possible.</p> <p>Vous trouverez des informations détaillées et des illustrations sur les premières pages.</p> <p>1. Informations générales</p> <p>Ce casque de vélo répond aux standards techniques actuels et représente la meilleure protection possible pour la tête contre les risques extérieurs. Cependant, il ne garantit en aucun cas l'exclusion des blessures.</p> <p>Ce casque de vélo est conforme à la norme européenne EN 1078 et au règlement européen (UE) 2016/425, et porte donc la marque CE. Dans le cadre de cette norme, les casques sont testés pour leur capacité d'absorption des chocs, l'efficacité du dispositif de port et des zones de protection, ainsi que leur champ de vision.</p> <p>2. Sélection de la taille de casque adaptée</p> <p>Pour une protection correcte, votre casque doit bien vous tenir. Mesurez la circonférence de votre tête au point le plus large, puis sélectionnez la taille appropriée. La taille du casque est indiquée sur une étiquette située à l'intérieur.</p> <p>Le casque doit se poser de manière sûre et confortable sur la tête. Essayez plusieurs casques et remarquez tout de suite les premières différences. Regardez-vous dans un miroir, car le casque doit également vous convenir.</p> <p>3. Adaptation du système de réglage de la taille</p> <p>Une protection optimale passe nécessairement par un ajustement correct. C'est pourquoi le casque est équipé d'un système de réglage K-FIT. Tournez la molette de réglage pour ajuster la taille de l'anneau de tête. Tournez la molette dans le sens « + » pour serrer l'anneau de tête, et dans le sens « - » pour le desserrer (voir image 2). Le casque est également équipé d'un système de réglage de la hauteur (voir image 3).</p>
	<p>accident mortel, ou une invalidité prolongée.</p> <p>UTILISEZ TOUJOURS UN CASQUE LORSQUE VOUS FAITES DU VÉLO ET ROULEZ PRUDEMMENT ! LE CASQUE NE PEUT PROTÉGER QUE CE QU'IL COUVRE !</p> <p>Portez toujours votre casque dans la bonne position. Aucun casque ne peut protéger le cou ou les zones non couvertes de la tête.</p> <p>AVERTISSEMENT !</p> <p>LES CASQUES NE DOIVENT PAS ÊTRE PORTÉS PAR LES ENFANTS LORSQU'ILS GRIMPENT OU JOUENT A D'AUTRES JEUX PRESENTANT UN RISQUE D'ÉTRANGLEMENT.</p> <p>La déclaration de conformité de l'UE pour ce casque peut être consultée à l'adresse suivante: https://kedquarter.kedahead.de/signature/KED_REACH_EC.pdf</p> <p>10. Elimination</p> <p>Éliminez les emballages en fonction de leur type. Jetez les cartons aux déchets papier et les films aux déchets plastiques.</p> <p>Ne jetez pas les piles dans les ordures ménagères !</p> <p>10. Garantie</p> <p>Vous bénéficiez d'une garantie de deux ans sur les défauts de matériel et de fabrication. La garantie ne couvre PAS l'usage normal, l'utilisation ou les modifications apportées au produit par le client, ni les dommages causés par des accidents ou une mauvaise utilisation. Pour vérifier la validité des demandes de garantie, vous devez fournir l'original de la facture d'achat portant le cachet du revendeur et la date d'achat.</p>	<p>Unsere Fahrradhelme entsprechen folgender Norm: EN 1078:2012 + A1:2012, sowie der Verordnung für persönliche Schutzausrüstungen Verordnung (EU) 2016/425 (CE-Zeichen)</p> <p>Profiteelste - Test body: Kiwa Nederland BV with its officelocatedat Wilmerdof 50 7327 AC, Apeldoorn, The Netherlands. Notifiedbody No. 0063</p> <p>Falls Sie Fragen haben oder weitere Informationen über unsere Produkte benötigen, wenden Sie sich bitte an unsere Service per Hotline, Email oder Homepage.</p> <p>Our Bicycle helmets meets the EN 1078:2012 + A1:2012, and the Regulation (EU) 2016/425 (E-E-marking)</p> <p>Profiteelste - Test body: Kiwa Nederland BV with its officelocatedat Wilmerdof 50 7327 AC, Apeldoorn, The Netherlands. Notifiedbody No. 0063</p> <p>If you have any questions or require further information about our products, please call our service hotline, send us an e-mail or visit our website.</p> <p>CE Certified to EN 1078:2012 +A1:2012</p> <p>D+H-G Knauer GmbH Blumen-Weg 2 71691 Freiberg am Neckar (Germany)</p> <p>Tel: +49-7141-7919293 Fax: +49-7141-7919292</p> <p>info@ked-helmssysteme.com www.ked-helmssysteme.de</p> <p>Änderungen und Irrtum vorbehalten. All specifications are subject to change, errors excepted.</p>



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<p>Test line (Test headform: 605mm(EN960:2006))</p>	
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Impact sites #1	
Impact sites #2	

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek.

