



TEST REPORT

№ and date of test report RN50857 / 16/07/2024

Internal request for testing №

RN50857 / 11/07/2024

Testing period

12/07/2024–16/07/2024

Customer:

PUBLIK DOO

Customer's address:

Vladike Nikolaja 469,14000 Valjevo, Serbia

№ and date of assignment document:

Application for testing from July 11th 2024

Method of arrival of the test item:

DHL delivery, waybill No. 965185360

Date of receipt of test item:

11/07/2024

Test item:

Electronic utility gas lighter, refillable. Manufacturer model: XHG9085, Client model: 20.091. – CARBO, 20.107. – CARBO SOFT, 20.108. – CARBO PRO, 20.109. – CARBO HD; Dimensions: Height 209.8mm; Diametre: 14.6mm

Manufacturer:



Normative references :

ISO 22702:2018, p.4.1, ISO 22702:2018, p.4.2, p.8.2, ISO 22702:2018, p.4.3, ISO 22702:2018, p.4.4, ISO 22702:2018, p.5.2.1, ISO 22702:2018, p.5.3.1, p.8.6, ISO 22702:2018, p.5.4, ISO 22702:2018, p.5.5, p.8.7, ISO 22702:2018, p.5.6, p.8.8, ISO 22702:2018, p.5.7

Number of test items:

45

Test performed by:

dipl. eng. Yana Georgieva

Test report issued by:

Dimitar Tanev

TC GLOBALTEST Manager

Dipl.eng.Dimitar Tanev

stamp

signature



Results are listed on pages 2 to 8

ESD 7.8-2

NOTE:

Test results are only for the tested item. The report could be used only in its whole. Test report is valid only with "wet" stamp or signed electronically.

RESULTS FROM TESTS – Test report RN50857 / 16/07/2024

Type of characteristic / Parameter	Method	Unit of measurement	Limit (Range)	Result	Uncertainty	Test conditions
Burning behavior	ISO 22702:2018, p.5.4	-	To withstand a butning time of 10s in vertical upward position of the flame and with the flame directed at 45° ±5° below horizon	4 specimens were used for this test. The specimens were igniteed for a period of 10s with the flame vertically upward for 10s. No distortion of the components and no burning was observed. Then the specimens were igniteed for a period of 10s with with the flame directed at an angle of 45°±5° below horizon (10s). No distortion of the components and no burning was observed. After the burning behaviour tests (5.4.1.a and 5.4.1.b) the specimens were able to be ignited and to produce flame. The specimens were again tested upon p.4.1, p.4.2 and p.4.4 - Conforms to the requirements upon p.4.1, p.4.2 and p.4.4.	-	T - 21.3°C; RH - 55%
External finish	ISO 22702:2018, p.5.7	-	No external sharp edges are allowed	No external sharp edges are allowed. Conforms to the requirement	-	T - 21.3°C; RH - 55%
Flame generation	ISO 22702:2018, p.4.1	-	To conform to p.4.1 of ISO 22702:2018	The lighter requires a positive action by the user in order to produce and maintain flame - sliding a button up and maintaining it in this possition in order to produce and maintain the flame. This conforms to letter a) of p.4.1 of the standard - Conforms to the requirement	-	T - 21.3°C; RH - 55%
Flame heights	ISO 22702:2018, p.4.2, p.8.2	mm	According to p.4.2.2 - Non-adjustable postmixing butner utlity lighter - maximum flame height - 100mm (vertical direction of the flame)	Measured average flame height 72mm - Conforms to the requirement	-	T - 21.3°C; RH - 55%
Flame-height adjustment (for adjustable utility lighters only)	ISO 22702:2018, p.4.3	-	To conform to the requirement	Not applicable	-	T - 21.3°C; RH - 55%
Resistance to continuous burning	ISO 22702:2018, p.5.5, p.8.7	-	To withstand 2min continuous burning time	3 test specimens were used for this test. The test specimens are stabilized before the test for 11h at 23°C. The specimens were ignited for 2min. After that none of them showed continuing burning of any part or a fuel reservoir rupture or damages. Conforms to the requirement	-	T - 21.3°C; RH - 55%
Resistance to cyclic burning	ISO 22702:2018, p.5.6, p.8.8	-	To withstand a burning time of 20s for 10 cycles	The test specimens are stabilized before the test for 10h at 23°C. The cycles were performed as follows: Each specimen was ignited for 20s with the nozzle pointed at 45° ± 5° below horizon. A total of 10 cycles were performed with 5min rest period between the cycles. All specimen were able to produce a flame for a 20s period. After the cycles the test specimens	-	T - 21.3°C; RH - 55%

(a) – the test method is in scope of accreditation; (na) – the test method is out of scope of accreditation;

Type of characteristic / Parameter	Method	Unit of measurement	Limit (Range)	Result	Uncertainty	Test conditions
				were again stabilized for 10h at 23°C. The specimens were again tested upon p.4.1, p.4.2 and p.4.4 - Conforms to the requirements upon p.4.1, p.4.2 and p.4.4		
Resistance to elevated temperature	ISO 22702:2018, p.5.3.1, p.8.6	-	To comply with the requirements of p.8.6 after a period of 4h at a temperature of 65°C	6 specimens are used in this test. Before the test, all 6 specimens were tested for a proper ignition of the flame. The specimens are placed in climatic chamber for 4h10min at a temperature of 65°C ± 2°C. After removing from the climatic chamber, the specimens were stabilized for 24 hours at a temperature of 23°C ± 2°C. No leakage was observed. All the specimens were able to produce flame. Conforms to the requirement. After the Elevated temperature test the specimens were able to be ignited and to produce flame. The specimens were again tested upon p.4.1, p.4.2 and p.4.4 - Conforms to the requirements upon p.4.1, p.4.2 and p.4.4	-	T - 21.3°C; RH - 55%
Resistance to spitting or sputtering and flaring	ISO 22702:2018, p.4.4	-	No spitting, sputtering or flaring is allowed	When a flame is produced no spitting, sputtering or flaring is observed. Conforms to the requirement	-	T - 21.3°C; RH - 55%
Structural integrity - Resistance to dropping	ISO 22702:2018, p.5.2.1	-	To withstand 3 separate (1.5 ± 0.1) m drops without breakages acc.to p.5.2.1	Specimen group 1 (p.8.5.4.2) - 5 specimens were stabilized for 10h10min at a temperature of (23±2) °C. After 3 separate (1.5 ± 0.1) m drops no fuel reservoir fragmentation was observed. No damages were observed. 5min after the last drop no leakage was observed - Conform to the requirement Specimen group 2 (p.8.5.4.3) - 5 specimens were stabilized for 24h at a temperature of (-10±2) °C. After that the specimens were stabilized for 11h at a temperature of (23±2) °C. After 3 separate (1.5 ± 0.1) m drops no fuel reservoir fragmentation was observed. No damages were observed. 5min after the last drop no leakage was observed - Conform to the requirement. After the Resistance to dropping test the specimens were able to be ignited and to produce flame. The specimens were again tested upon p.4.1, p.4.2 and p.4.4 - Conforms to the requirements upon p.4.1, p.4.2 and p.4.4	-	T - 21.3°C; RH - 55%

Note: The samples are presented at the lab empty (no fuel). The samples were not accompanied by Instructions and warnings

Photos

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