

Test Report

Nº B24-21-CU-01E



Tests marked with (*) are not covered by ENAC accreditation

Degree of protection IPX8 tests, inflation (*) and floatage (*) tests

TEST SAMPLE	SEALED BAG FOR WATER SPORTS
MODEL	KGUARD XL
REQUESTED BY	IDEILAN DISEÑO, S.L.
MANUFACTURER	IDEILAN DISEÑO, S.L. Estartetxe Kalea, 5, 48940 Leioa, Bizkaia
STANDARD	IEC 60529:1989+A1:1999+A2:2013 + applicant instructions
RECEPTION DATE	2 nd September 2021
TEST DATE	2 ^{sd} to 8 th September 2021
ISSUE DATE	9 th September 2021

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Test Chief	Head of Electrical Equipment Laboratory
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- * The present report refers only and exclusively to the sample tested and at the moment and conditions in which the measures were made.
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1. IDENTIFICATION AND CHARACTERISTICS OF TEST SAMPLE

SEALED BAG FOR WATER SPORTS

Model: KGUARD XL



2. TEST FACILITIES ADDRESS

Tests have been performed at TECNALIA’S Electrical Equipment Laboratories, located at the Scientific and Technological Park of Bizkaia, building 413 – Ingrid. 48170 (Zamudio-Spain).

3. TESTS PERFORMED. STANDARD

- Tests for degree of protection IPX8 against water ingress. Tests have been performed according to IEC 60529:1989+A1:1999+A2:2013 “Degrees of protection provided by enclosures (IP Code)”.
- Floatage tests. Test has been performed according to applicant indications.

A calculation of uncertainties for all measurements carried out is available.

4. TESTS SUMMARY

Test	Result
IPX8 (3 meters depth-96 hours)	CORRECT
IPX8 (40 meters depth-24 hours)	CORRECT
Floatage test	CORRECT

5. PROTECTION AGAINST INGRESS OF WATER: CONTINUOUS IMMERSION BY AGREEMENT (IPX8)

5.1. Test 1

Test is made by completely immersing the sample in a water vessel so that the following conditions, as specified by the applicant, are satisfied:

- a) Immersion depth: 3 meters
- b) Duration of the test: 96 hours.
- c) Sample immersed with absorbent paper inside to check water ingress.

Ambient air conditions: 25 °C – 68% HR – 1004 mbar.

Water temperature: 23 °C

RESULT: **CORRECT**. No water ingress is observed inside the sample.

5.2. Test 2

Test is made by completely immersing the sample in a sealed water vessel. Vessel is pressurized so that the following conditions, specified by the applicant, are satisfied:

- a) Pressurized to 4 kg/cm² equivalent to a depth of 40 meters.
- b) Test duration: 24 hours.
- c) Sample immersed with absorbent paper inside to check water ingress.

Ambient air conditions: 25 °C – 68% HR – 1004 mbar.

Water temperature: 23 °C

RESULT: **CORRECT**. No water ingress is observed inside the sample.

6. FLOATAGE TEST (*)

The purpose of this test is to verify that, in the event of loss, the sample is able to stay afloat when it contains the object to be protected.

In this case the object introduced for the test is a smartphone of 184.4 gr weight.

RESULT: **CORRECT**. See photographs in annex.

7. ANNEX 1. IPX8 TESTS

IPX8 test 1 (3 meters depth, 96 hours)



Vessel for the test to a depth of 3 meters



Beginning of immersion



End of immersion

IPX8 test 2 (40 meters depth, 24 hours)

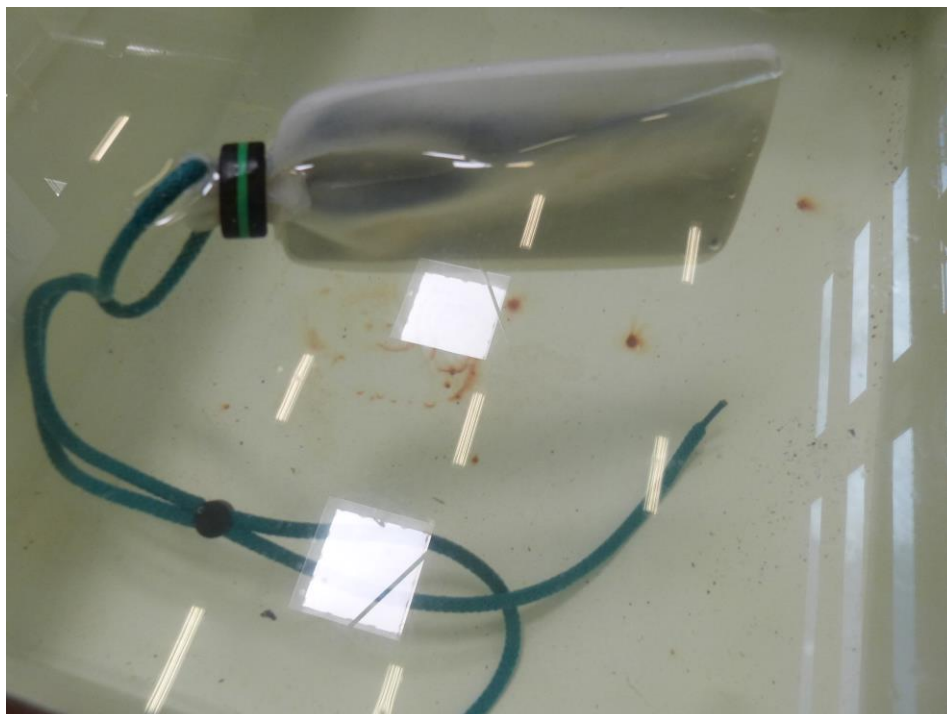


Pressure gauge



Sealed vessel for IPX8

8. ANNEX 2.FLOATAGE TESTS



Floatage test