



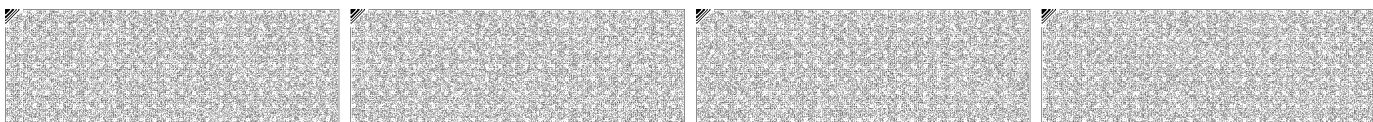
TEST REPORT

	Dt&C Co., Ltd. 42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si Gyeonggi-do, Korea Tel : 031-321-2664, Fax : 031-321-0220	
1. Report No : DRCKREL2302-0048 2. Customer • Name : Seojin Instech Co., Ltd. • Address : 14, Duchon-daero 457beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13218, Republic of Korea 3. Use of Report : For quality control 4. Product Name / Model Name : Displacement Type Level Switch / SMC 5. Test Method Used : IEC 60529 : 2013 6. Date of Test : January 31, 2023 ~ February 07, 2023 7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing (Address : 28, Baengnyeong-ro, 20Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea) 8. Testing Environment : Temperature (21 ± 2) °C , Humidity (38 ± 4) % R.H. 9. Test Result : Refer to the attached Document The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This laboratory is not accredited for the test results marked. " * "		
Affirmation	Tested by Name : GyuJin Lim	Technical Manager Name : JaeHan Jung
The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.		
February 10, 2023		
Dt&C Co., Ltd. Accredited by KOLAS, Republic of KOREA		

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

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 TRF-NE-002(03)161101

Pages: 1 / 15



Contents

1. Overview.....	3
2. Product	3
2.1. Description	3
2.2. Photograph.....	4
3. Test condition & Test result	6
3.1. IP6X	6
3.2. IPX7	10
* Appendix 1. Test result	14



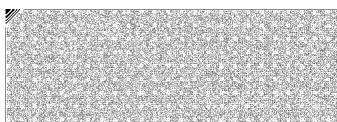
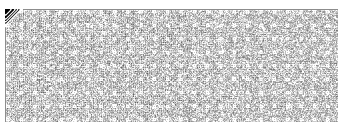
1. Overview

- This test is performed in accordance with requirement of the customer along with the test condition and the test product submitted by the customer.

2. Product

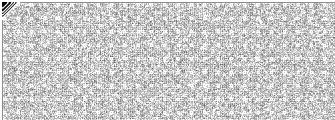
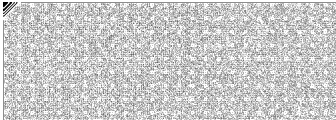
2.1. Description

- (1) Customer : Seojin Instech Co., Ltd.
- (2) Product name : Displacement Type Level Switch
- (3) Model name : SMC
- (4) Serial No. : SMC-IP67

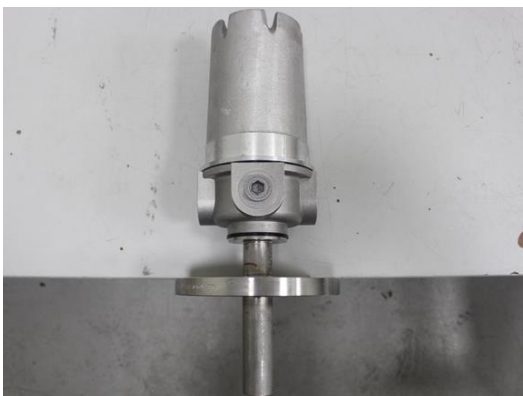
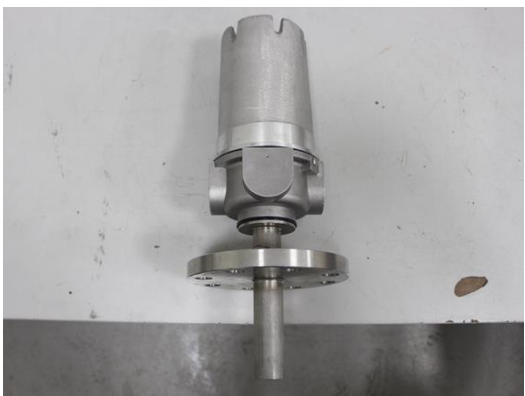
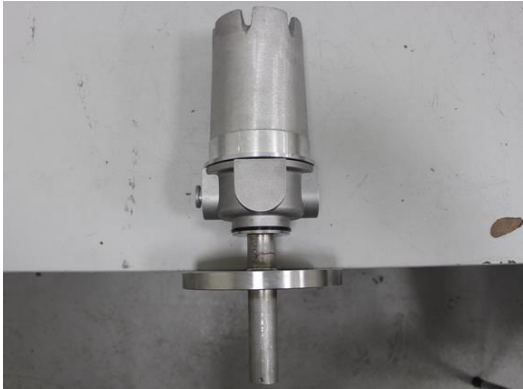
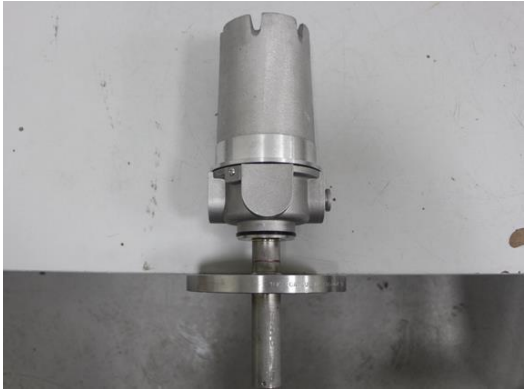


2.2. Photograph

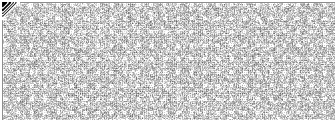
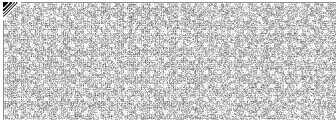
	
a. Front	b. Rear
	
c. Top	d. Bottom
	
e. Side #1	f. Side #2
I. IP6X	



(Continue)

	
a. Front	b. Rear
	
c. Top	d. Bottom
	
e. Side #1	f. Side #2
II. IPX7	

[Photo 1] Displacement Type Level Switch



3. Test condition & Test result

3.1. IP6X

<Table 1> Product information

Customer	Seojin Instech Co., Ltd.	Date of Test	January 31, 2023
Product name	Displacement Type Level Switch	Test standard	IEC 60529 : 2013 (IP Code)
Model name	SMC	Serial No.	SMC-IP67

(1) Test conditions

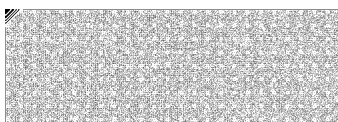
- 1) IP Code : IP6X (Dust-tight)
- 2) The talcum powder used shall be able to pass through a square meshed sieve the nominal wire diameter of which is 50 μm and the nominal width of a gap between wires 75 μm
- 3) Amount of talcum powder of the test chamber : 2 kg/m³
- 4) Maximum depression : 2 kPa (20 mbar)
- 5) Test time : 8 h
- 6) Product check : Observation of dust penetration
- 7) Product condition : ① Unpackaged ② Non-operation
- 8) Product quantity : 1 EA



(2) List of used equipment

<Table 2> List of used equipment

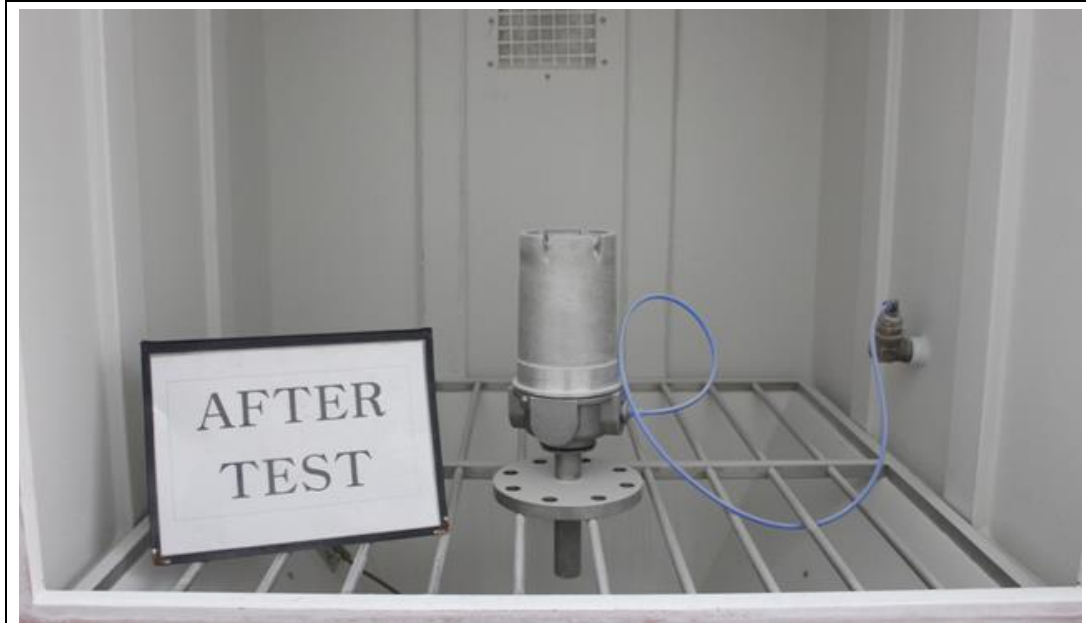
Description	Model / Manufacturer	Serial number	The next scheduled calibration date	Calibration laboratory
Dust chamber (Timer)	EN-DCT-1000F / ENEX (LE3S / AUTONICS)	20150420-03 (14-16767)	- (March 08, 2023)	- (SICT)
Test sieve	75 μ m / Chung Gye Sang Gong Sa	E25	January 03, 2024	SICT
Differential pressure gauge	(0 ~ 300) mmH ₂ O / DWYER	E17	March 30, 2023	SICT
Gas flow meter	RMA-14-SSV / DWYER	E19	March 29, 2023	SICT
Thermo- hygrometer	PC-5000TRH-2 / SATO	#3	August 09, 2023	SICT



(3) Test photograph



a. Before the test



b. After the test

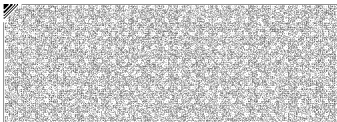
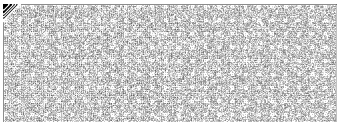
[Photo 2] Test photograph



(4) Test result

<Table 3> Test result

Check list	Test result
Observation of dust penetration	No dust penetration is observed (Refer to * Appendix 1.)



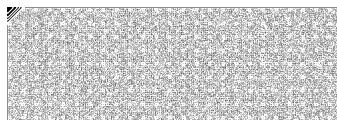
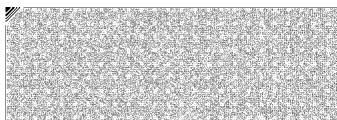
3.2. IPX7

<Table 4> Product information

Customer	Seojin Instech Co., Ltd.	Date of Test	February 07, 2023
Product name	Displacement Type Level Switch	Test standard	IEC 60529 : 2013 (IP Code)
Model name	SMC	Serial No.	SMC-IP67

(1) Test conditions

- 1) IP Code : IPX7 (Protected against the effects of temporary immersion in water)
- 2) The temperature difference between the water and product : 2.6 °C
- 3) Immersion depth : 1 000 mm
- 4) Test time : 30 min
- 5) Product check : Observation of water penetration
- 6) Product condition : ① Unpackaged ② Non-operation
- 7) Product quantity : 1 EA

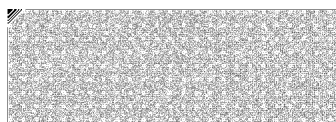
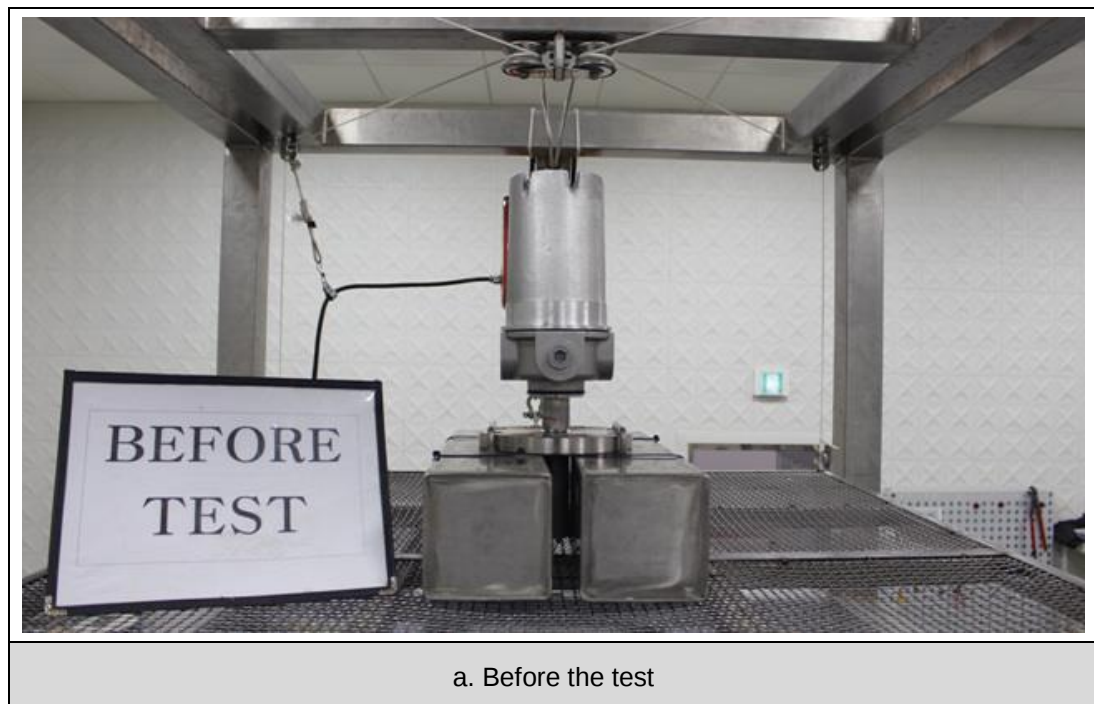


(2) List of used equipment

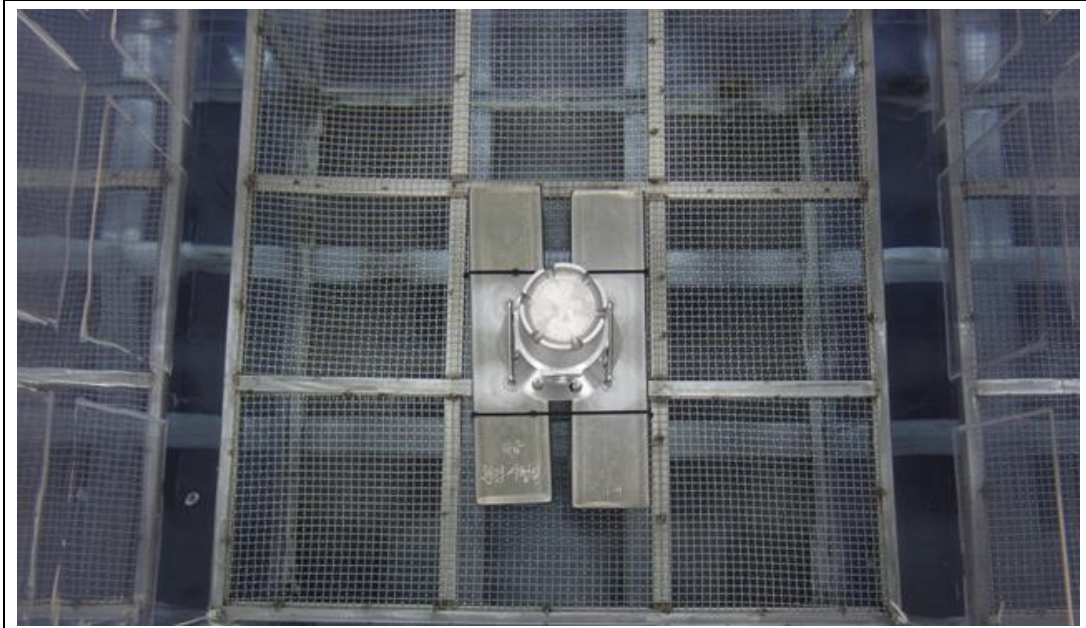
<Table 5> List of used equipment

Description	Model / Manufacturer	Serial number	The next scheduled calibration date	Calibration laboratory
IP Tester	SOS-100 / SCM TECH	E1	-	-
Stop watch	HS-70W-1DF / CASIO	409Q09R	March 29, 2024	SICT
Steel ruler	(0 ~ 1 500) mm / Blue Bird	E20	March 07, 2023	SICT
Infrared thermometer	561 / FLUKE	31610040	February 02, 2024	SICT
Thermo- hygrometer	PC-5000TRH-2 / SATO	#3	August 09, 2023	SICT

(3) Test photograph



(Continue)

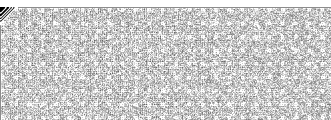


b. During the test



c. After the test

[Photo 3] Test photograph



(4) Test result

<Table 6> Test result

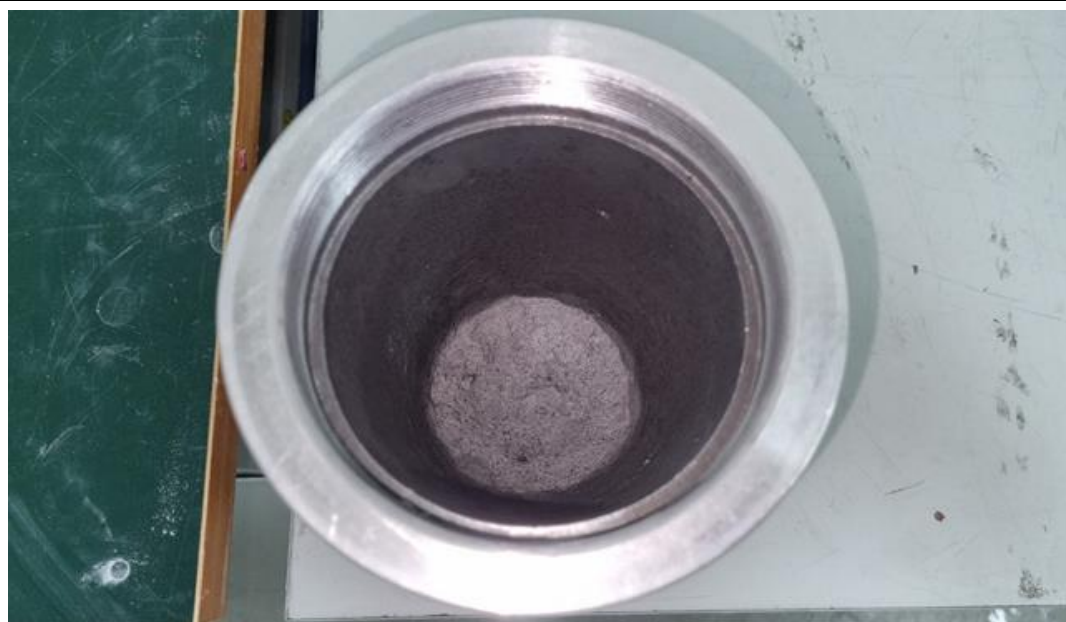
Check list	Test result
Observation of water penetration	No water penetration is observed. (Refer to * Appendix 1.)



* Appendix 1. Test result

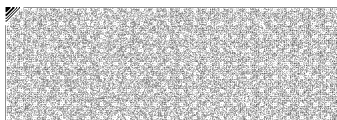


a. Test result #1

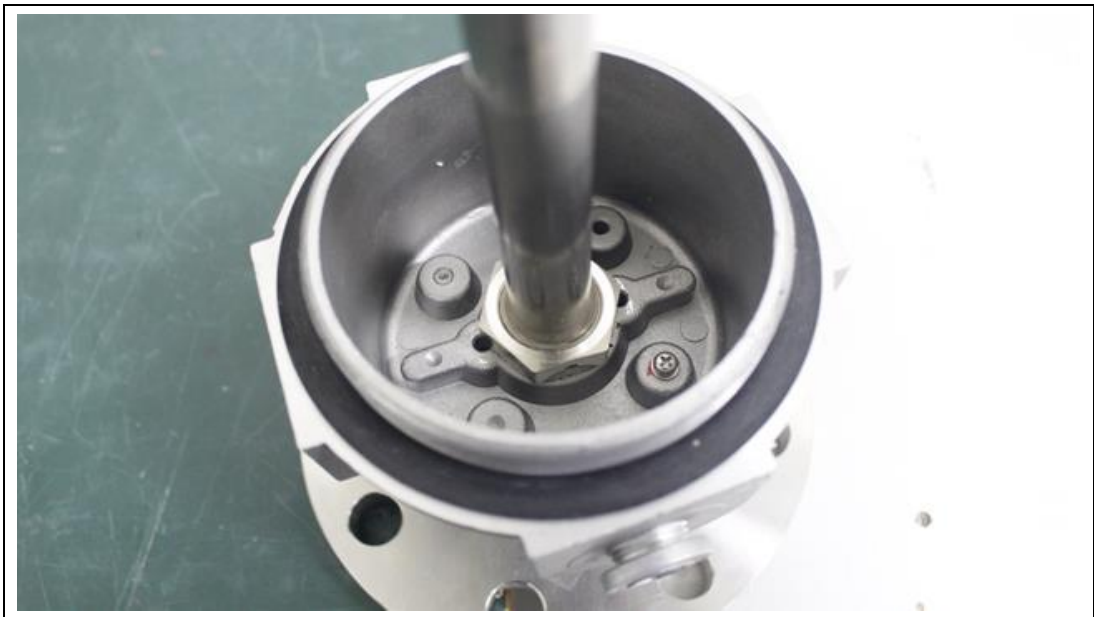


b. Test result #2

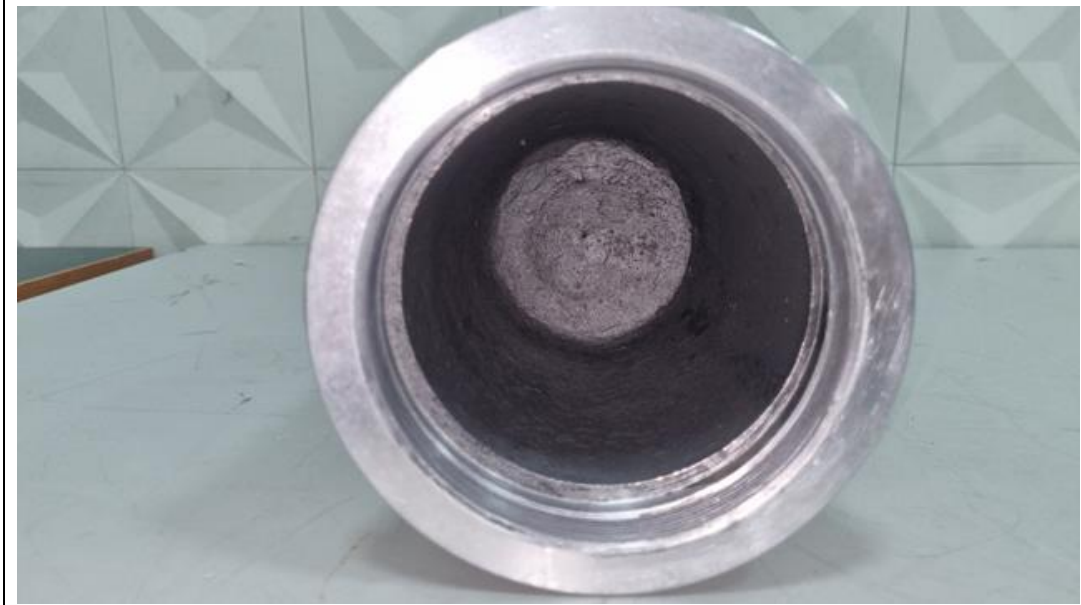
I. IP6X



(Continue)



a. Test result #1



b. Test result #2

II. IPX7

[Photo 4] Test result photograph

-End-

