

Test Report No.: IT14/1691-00
Applicant: MARTIN S.r.l.
IT – 25050 PROVAGLIO D'ISEO (BS)
Type: 70170/HYG



TEST REPORT

No: IT14/1691-00

issued by

FAKT S.r.l.

Via Lithos, 53 IT - 25086 Rezzato (BS)

concerning the execution of tests as listed at point 2. below:

1. General information

- | | | |
|--------|--|--|
| 1.0. | <u>Equipment under test:</u> | Stainless steel closing system |
| 1.1. | <u>Trade mark:</u> | MARTIN S.r.l. |
| 1.2. | <u>Type:</u> | 70170/HYG |
| 1.2.1. | <u>Version:</u> | -- |
| 1.3. | <u>Identification:</u> | C-14/0483 (1) |
| 1.3.1 | <u>Part no. identification:</u> | -- |
| 1.4. | <u>Applicant's name and address:</u> | MARTIN S.r.l.
Via Cave, 1
IT – 25050 PROVAGLIO D'ISEO (BS) |
| 1.5. | <u>Applicant represented during the test by the following person(s):</u> | -- |
| 1.6. | <u>Date of receipt of test objects:</u> | 05.11.2014 |
| 1.7. | <u>Remarks:</u> | -- |

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2. Test sequence and results

2.1. Regulations/Deviations:

The following reference for the performed tests have been used:

- A: EN 60529
- B: ISO 20653

The tests have been carried out according to the specific requirements mentioned in the above standard and according to the applicant's requirements with the following sequence:

Standard reference (as indicated above) and relevant clause(s)	Description	Sample
A	Dust Test (IP6X)	C-14/0483 (1)
B	Water High Pressure Test (IPX9K)	C-14/0483 (1)

2.2. Test results:

Standard reference (as indicated above) and relevant clause(s)	Description	Sample	Result	Documentation	
				Protocol	Enclosure
A	Dust Test (IP6X)	C-14/0483 (1)	Passed (*)	IT14/1691-00/01	01
B	Water High Pressure Test (IPX9K)	C-14/0483 (1)	Passed	IT14/1691-00/02	02

- (*) The internal check was carried out after the IPX9K test (see test protocol IT14/1691-00/02 and attached photos).

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3. **Enclosures:**

2 test protocols (4 pages)

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This report includes 3 pages and 2 enclosures.

Rezzato, 19.11.2014

sb/ns

File No.:



PR-14/0483

A handwritten signature in black ink, appearing to read "S. Baruffolo".

S. Baruffolo

The Responsible for the tests

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Applicant: MARTIN S.r.l.
IT – 25050 PROVAGLIO D'ISEO (BS)
File No.: 2014/0483
Type: 70170/HYG
Sample No.: C-14/0483 (1)
Environmental conditions: Ambient temperature: (20 ± 3)°C
Relative humidity: (48 ± 10) %

Mode of operation: Powered @ xx,x V_{DC}
 Not Powered

Regulations: IP 6X according to EN 60529 standard and acc. to the applicant's requirements.

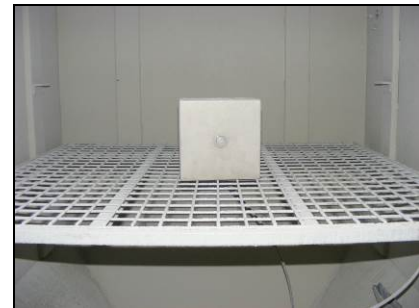
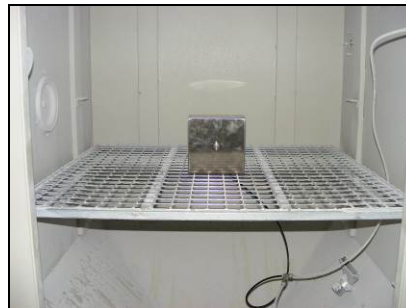
Test Specification:

Dust test:

The test sample, assembled on a metallic box by the applicant, was placed in the cubical dust test cabinet as agreed with the applicant and subjected to the following test conditions:

Test dust: Talcum
Test duration: 8h
Inside sample depression: 20 mbar
Extracted air volume: 0 m³
Dust suspension method: Continuous vertical direction flow (circulation pump)

Photo test set-up:



Used equipment: IP Dust Chamber ACS SD1000 F (ITST06028)
Performance criteria: No observable deposit of dust inside the sample at the end of the test.
Result: No visible dust penetration after the opening of the box. The sample was not opened immediately after the test.
Remarks: The internal check was carried out after the IPX9K test (See test protocol IT14/1691-00/02 and attached photos).
Classification: Passed Not passed n.a.
Date of test: 12.11.2014
Test Location: FAKT S.r.l. – Rezzato (BS)
Operator: S. Tuana

Photos of sample C-14/0483 (1) after the IP6X test



Applicant: MARTIN S.r.l.
IT – 25050 PROVAGLIO D'ISEO (BS)
File No.: 2014/0483
Type: 70170/HYG
Sample No.: C-14/0483 (1)
Environmental conditions: Ambient temperature: (21 ± 3)°C
Relative humidity: (40 ± 10) %

Mode of operation: Powered @ xx,x V_{DC}
 Not powered

Regulations: IPX9K according to ISO 20653 standard and acc. to the applicant's requirements

Test Specification:

Water high pressure test:

The test sample, after the dust test, was fixed as agreed with the applicant on the turntable and subjected to the high pressure/steam jet cleaning, with the following parameters:

Water temperature: (80 ± 5)°C
Water flow rate: (15 ± 1) l/min
Water pressure: (90 ± 10) bar
Fan jet distance: (125 ± 25) mm
Fan jet position: 0°, 30°, 60°, 90°
Sample speed rotation: (5 ± 1) rpm
Duration: 30 s (for each jet position)

Photo test set-up:



Used equipment: IPX9K test system (ITAP08041)

Performance criteria: Water which is directed against the enclosure from any direction shall not have any detrimental effect.

Result: After the opening of the box, no visible presence of water.
No visible damage was detected after the test.

Remarks: --

Classification: Passed Not passed n.a.

Date of test: 17.11.2014

Test Location: FAKT S.r.l. – Rezzato (BS)

Operator: S. Tuana

Photos of sample C-14/0483 (1) after the IPX9K test



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