



1175 CHURCH STREET • BOHEMIA, LONG ISLAND, NEW YORK 11716
AREA CODE 631 589-6300



3 May 2012
411881-11-04-C12-0471

Certificate of Conformance for Freight Container Mechanical Seal Testing

Seal Classification: High Security

Customer: Abric Berhad
J-8-8, 2 Jalan Solaris,
Solaris Mont' Kiara,
50480 Kuala Lumpur,
Malaysia

Attention: Adeline Ong, CEO

Purchase Order No.: DAY 042312

Sample Type: Bolt Seal

Seal Name: Hanalock CJ (as provided by customer)

Part No.: HN078B (as provided by customer)

Serial Nos.: DTB 1 through DTB 26

Specification No.: ISO 17712:2010(E) Clauses: 4.4.3 and 5

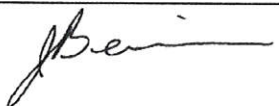
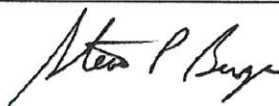
Test Dates: 26 April through 2 May 2012

Dayton T. Brown, Inc. certifies that 26 samples, 5 for each test and 1 for measurements, of the Seals referenced above, were subjected to the following tests.

| Test Name | Paragraph No. | Classification Rating |
|-----------------------------|---------------|-----------------------|
| Minimum Diameter | 4.4.3 | Meets Requirements |
| Tensile Test | 5.2 | High Security |
| Shear Test | 5.3 | High Security |
| Bending Test | 5.4 | High Security |
| Impact Test at Room Temp | 5.5 | High Security |
| Impact Test at Reduced Temp | 5.5 | High Security |

Results: The above listed tests were completed with no discrepancies noted. Refer to Test Report No. 411881-11-04-R12-0472 for complete details.

The test results contained herein pertain only to the specimens listed in this report. This report shall not be reproduced, except in full, without the written approval of Dayton T. Brown, Inc.

| | | |
|---------------------|---|--------------|
| Prepared by: |  | J. Benincasa |
| Engineer: |  | S. Benza |

James Benincasa

Digitally signed by James Benincasa
DN: c=US, st=NY, l=Bohemia, email=jbenincasa@dtbttest.com,
o=Dayton T. Brown, Inc., cn=James Benincasa
Date: 2012.05.07 11:26:50 -04'00'





1.0 ABSTRACT

This test report details the results of freight container mechanical seal classification testing conducted on Bolt Seals, under reference (a) to the requirements of reference (c).

Results of the tests are detailed in the following text.

Exceptions/deviations during tests are as follows: The room ambient temperature deviated from the specified tolerance during the tensile, bend and shear tests. The temperature went 1.1°C over tolerance during the tensile and shear tests, and 1.0°C over tolerance during the bend test.

Test data pertinent to this program will remain on file at Dayton T. Brown, Inc. for 90 days.

The testing and results contained in this report are in accordance with the testing requirements called out in ISO 17712:2010 and are only applicable to the specific units identified in the test report and do not address any individual manufacturer's compliance or non-compliance with all the requirements of ISO 17712:2010 which are the sole responsibility of each manufacturer and not part of the testing performed and recorded in this test report.

Dayton T. Brown, Inc. is not involved in any production quality inspections. All tests are based on the samples that are selected by the manufacturer and provided to Dayton T. Brown, Inc. without any Dayton T. Brown, Inc. involvement in said selection.

Dayton T. Brown, Inc. performs testing to ISO 17712:2010 under laboratory conditions. These tests do not measure and are not intended to measure all possible applications or installations of the seal assembly or components. In that event, the report will describe the particular application tested in detail. Dayton T. Brown, Inc. is not responsible for actual performance of any seal assembly as installed in any application.

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2.0 REFERENCES

- (a) Customer Purchase Order No.: 1014
- (b) Dayton T. Brown, Inc. Job No.: 411881-03-000
- (c) Test Specifications: ISO 17712:2010 (E) Clauses: 4.4.3 and 5

3.0 SEAL CLASSIFICATION

ISO 17712:2010 (E): (H)-High Security for Clauses: 4.4.3 and 5



5.5 - Impact Test and Results

TEST DATA - (Continued)

Date: 11 March 2011

| Impact Test at $-27 \pm 3^\circ \text{C}$ | | | | | |
|---|--|-------|-------|--------------------------|---------|
| Specimen No. | Number of Successful Impacts Per Load (J) | | | Classification Rating | Remarks |
| | 13.56 | 27.12 | 40.68 | | |
| DTB 21 | 5 | 5 | 5 | H | * |
| DTB 22 | 5 | 5 | 5 | H | * |
| DTB 23 | 5 | 5 | 5 | H | * |
| DTB 24 | 5 | 5 | 5 | H | * |
| DTB 25 | 5 | 5 | 5 | H | * |

Tech: SD

Classification Key

| Rating | Load to Failure (5 impacts at each load) |
|--------------------|---|
| High Security (H): | 40.68 J |
| Security (S): | 27.12 J |
| Indicative (I): | <27.12 J |