

METAL INDUSTRIES RESEARCH & DEVELOPMENT CENTRE
REGIONAL R&D SERVICE DEPARTMENT (TAICHUNG)

40768 台中市台中工業區 37 路 25 號 TEL : (04)23502169

No.25, 37th Road, Industrial Park, 40768 Taichung, Taiwan

TESTING REPORT



Applicant :
Shanghai Xinfan Container Fittings Co., Ltd.
Address :
Room 102, Building 1, No. 333 Hanzhong Road,
Zhabei, Shanghai, China

Application No. : 60122273-T12
Received Date : 2007/01/22
Date Issued : 2007/01/30
Page 1 of 4

- (1).Name of Article : Bolt Seal Type : DH-S (As photo 1)
(2).Seal Classification: High Security Seal
(3).Test Item : Tensile Test
(4).Testing Instrument : Universal Testing Machine
(No.TG0101)
(5).Ambient Temp. : 23°C ; 60% R.H.
(6).Inspection Reference :
According to ISO/PAS 17712 : 2006
(7). Result :



Photo 1

● **Tensile Test**

Tensile Test **PASS**

The seal was gripped in a tensile machine and a pull force applied.

Requirement	Load to Failure	10.0 kN
Actual		15.5 kN

Note : (1) Testing lab : Certified according to ISO/IEC 17025 : 2005

(2) This report is responsible for designated samples only.

(3) Reproduction of all or parts this report without a written approval is strictly prohibited.

Report Authorized Person :



Inspector :



Revision No. : 1

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- (1).Name of Article : Bolt Seal Type : DH-S (As photo 1)
(2).Seal Classification: High Security Seal
(3).Test Item : Shear Test
(4).Testing Instrument : Universal Testing Machine (No.TG0101)
(5).Ambient Temp. : 23°C ; 60% R.H.
(6).Inspection Reference : According to ISO/PAS 17712 : 2006
(7). Result :

● **Shear Test**

Shear Test PASS

The seal was fixed in a universal testing machine to withstand cutting with shearing blades and a compressive load applied slowly until the seal is severed.

Requirements	Load to Failure	341 kgf
Actual		2060 kgf



Photo 1

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- (1).Name of Article : Bolt Seal Type : DH-S (As photo 1)
(2).Seal Classification: High Security Seal
(3).Test Item : Bending Test
(4).Testing Instrument : Universal Testing Machine (No.TG0101)
(5).Ambient Temp. : 23°C ; 60% R.H.
(6).Inspection Reference : According to ISO/PAS 17712 : 2006
(7). Result :

● Bending Test

Bending Test PASS

Fix the locking end on the universal testing machine in a horizontal position.
Apply a load on the remaining portion of the seal at a distance (the moment arm) above the fixed end so as to bend the seal 90 degrees.

Requirements	Bending Moment to Failure	50 Nm
Actual		78 Nm



Photo 1

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- (1).Name of Article : Bolt Seal Type : DH-S (As photo 1)
(2).Seal Classification: High Security Seal
(3).Test Item : Impact Test
(4).Testing Instrument :
1. Impact Testing Machine
2 . Programable Low Temp. Tester (No.SG5501)
(5).Ambient Temp. : 23℃ ; 60% R.H.
(6).Inspection Reference : According to ISO/PAS 17712 : 2006
(7). Result :



Photo 1

Impact Test

The impact test is performed at 18 degrees C and minus 27 degrees C of temperature.
The impact load is applied at the locking mechanism of the seal in the direction
opposite the direction used in locking the seal.
The initial impact load is applied 5 times at a load equivalent to 13.56 J.
Subsequent impact test is applied 5 times at a load equivalent to 27.12 J.
The final impact load is applied 5 times at a load equivalent to 40.68 J.

Temperature : At 18 °C

Impact Test	5 times at a load		
	13.56J	27.12J	40.68J
Actual	PASS	PASS	PASS

Temperature : : At -27 °C

Impact Test	5 times at a load		
	13.56J	27.12J	40.68J
Actual	PASS	PASS	PASS

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