

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

Date: Oct. 08, 2004

Report No: SC93260

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Applicant: SHANGHAI XINFAN CONTAINER FITTINGS CO., LTD.

Address: # 1858, ZHUXIN ROAD. JINSHAN ZONE, SHANGHAI CITY, CHINA



RE: SINGLE SHAFT RIGID DH-D LEAD SEALS

Inspecting Engineer: *Chiang Ching Liu*

Report Authorized Person: *Charlie C. J. Lin*

INTRODUCTION

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The above seal was received for testing to ISO / PAS 17712 Revision 2, Clauses 4.1, 4.2, 4.3 and 4.4.

PROCEDURE

The testing was carried out in accordance with all applicable specifications of the contract and the rules for inspection of this Centre.

METHOD AND RESULTS

Tensile Test (Clause 4.1) PASS

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

Requirement	Load to Failure	10.0 kN
Actual		18.3 kN



Shear Test (Clause 4.2) 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		1980 kgf

The seal satisfied the requirements of ISO / PAS 17712 Revision 2, Clauses 4.1, 4.2, 4.3 and 4.4. Seal Classification: High Security Seal.

Bending Test (Clause 4.3)

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 **63.5 Nm**

Impact Test (Clause 4.4)

PASS

The impact test is performed at 24°C of room 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.

Requirements **No fails or successfully withstands 5 impacts at 40.68 J.**

Actual **Successfully withstands 5 impacts at 40.68 J.**

CONCLUSION

The seal satisfied the requirements of ISO / PAS 17712 Revision 2, Clauses 4.1, 4.2, 4.3 and 4.4, Seal Classification: High Security Seal.

-----The end-----

Respecting Business: *[Signature]*

Report Authorized Person: *[Signature]*