



Integration Test Report

Copyright@2010

All rights reserved.

The information contained in this document is subject to change without notice.

Model NO: SC3000/SC4500/SC6000/SC9000 (STORAGE CABINETS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS)

To: TOTALTECH Ltd.

EXAMINATION AND TESTS:

1.1 The flammable liquids storage cabinets (Model NO. SC3000/ SC4500/ SC6000/ SC9000) were submitted as representative of the Tongrun product line. Examination showed them to be constructed with tight fitting joints. Applicable manufacturer's drawings complete with material specification for this cabinets are on file.

1.2 The sample cabinets were subjected to a 10 minute fire test according to the time-temperature curve as set forth in Article 42 of NFPA 30. The internal cabinet temperature at the end of the 10 minute exposure was 149°. All joint and seams remained tight and the doors remained securely closed. The handle melted as a result of the exposure.

1.3 During the fire exposure test, cinder blocks were used to simulate capacity loading of the shelves. There was no deformation or loss of stability during or after the fire as a result of this loading.

1.4 The vents were left plugged for the fire test, but as a part of the investigation, they were subjected to a 15 min fire exposure test by passing a combustible hydrocarbon gas-air mixture through the arrester and allowing it to burn on the surface of the arrester. The flow was cut-off at 5 minute intervals and no evidence of flashback was observed.

1.5 An endurance test of 1000 cycles of full opening and closing of the door closer (12.7cm stroke) was set up powered by an air cylinder to operate at approximately 12 cycles per minute. At the end of this test period, the door closer was in satisfactory condition, the spring force required to overcome the door closer (star the rod moving) was still 9.07 kg.

1.6 The test of the examination and tests are satisfactory.

CONCLUSION:

The storage cabinets for flammable and combustible liquids meet Tongrun testing requirements. The tested storage cabinets for flammable and combustible (Model No: SC3000/ SC4500/ SC6000/ SC9000) are selected for testing according to random sample.

Total tech

ESD & Clean Room Products

ORIGINAL DATA : Test Notebooks RGDA 100128122

ATTACHMENTS : manufacturer' Drawing NO. SC3000/SC4500/SC6000/SC9000

For and on behalf of
SIRIM Center



Authorised Signatory