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Date
December 21, 1999

Our ref.
BU4.99/034419-1/BB

Subject
Gasoline resistance of FIWA
Order 50067/01.01

Your letter

Dear Mr. Beele,

Herewith we sent you the results of gasoline resistance of FIWA.

Introduction

Beele Engineering ordered the TNO Institute of Industrial Technology to control the gasoline resistance of FIWA putty. The FIWA was already crosslinked and received as a plate material with a diameter of about 80 mm and a height of about 30 mm. The sample number was 991230.

Investigation and results

To control the gasoline resistance, Fuel B (iso-octane/toluene 70/30) was used as swelling liquid. A column of the swelling liquid was placed on the sample. After one week at normal temperature a visual inspection was carried out on the sample. The test with Fuel B is comparable to that of gasoline. The sample showed after one week some swelling at the surface. There were no cracks visible on the sample and no colouring from the liquid occurred. After conditioning for three days in air at 40 °C just the swelling disappeared. There were no signs of additional shrinking or visible defects.

Conclusion

The test with the sample FIWA showed that it could resist Fuel B for at least one week. In practice the gasoline will be removed much sooner. Therefore it can be concluded that the FIWA putty can be used for RISE cable and pipe penetrations where occasionally contact with gasoline might appear.

Project Manager

B. van Baarle

Manager Product Testing Rubber

J.S. Havinga

Enclosures



Netherlands Organization for
Applied Scientific Research (TNO)