

Elastocon®

Testing with precision

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Our calibration lab is accredited by SWEDAC



info@elastocon / # 1-2015 / Spring News

ALE-test (Aeration and Liquid Exchange test)

Our latest addition for ageing polymer materials during stress relaxation is called the ALE-test.

ALE-test stands for Aeration and Liquid Exchange test. This means that it is now possible to have both automatically aeration and liquid exchange during the stress relaxation test.

The ALE-test system is purchased as a complement/accessory for use with a stress relaxation system.

ALE-test consists of a special test rig where the sample is mounted, a stirrer that mixes the liquid and air inside the container, input and output of air and liquid, plus a control box that controls the new functions. This system makes it possible to test closer to real conditions, such as in a vehicle's fuel system, than has previously been possible to do in a laboratory.

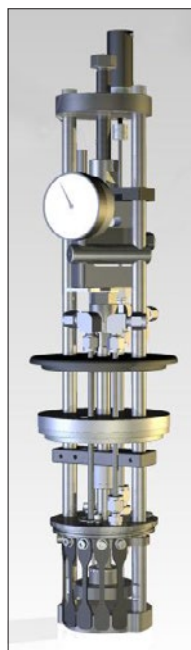
It is a known fact that addition of air during the testing gives a more reality-based condition during the test. Reality-based in the sense that you will always find air present in a vehicle's oil or fuel system. Under these conditions the environment for the sealing and hoses will change.

The traditional condition for these tests is a closed container where the air will be depleted over time and the degradation of the products will increase inside the closed environment.

Studies have shown that aeration during the test will change the test results. At Elastocon we've made a comparison study with two different materials. We've seen a very clear difference between the two different test methods. The result from this test is not yet published, but it will be later this year.

Anna Anderzén

This instrument was developed in a joint project with Scania, AB Volvo, Volvo Cars, SP Technical Research Institute of Sweden, Lanxess and Elastocon about ageing of elastomers in biofuels. The project was financed by the Swedish Energy Agency and participating companies.



Comparison of ALE ageing and standard ageing in motor oil.

Blue line is standard ageing and green line is ALE ageing.

Red line is temperature, 140 °C.



Elastocon manufactures instruments for testing of rubber and plastic materials

- Specimen preparation
- Ageing ovens
- Stress relaxation and creep
- Low temperature testing
- Windscreen fogging
- Computerised testing
- Electrical tests
- Custom built instruments
- Calibration service

Exhibitions in 2015



Plast 2015 will take place in Milan, Italy, during the 5th–9th of May, together with the satellite shows Rubber 2015 and 3D Plast.

Around 1300 exhibitors has applied for space which is 5 % more than last show 3 years ago. Plast 2012 had exhibitors from 58 countries. The numbers for this years exhibition is not yet published but a guess is that it will be at least as many.

We will be present in Hall 1, stand AO1 in our Italian distributors (DGTS) stand. There we will show our newest addition for the stress relaxation test, ALE-test (see separate article).

If you happen to be at the exhibition, feel welcome to come and say hello!



Between 29th of June and 2nd of July it is time for DKT 2015 in Nuremberg, Germany.

Over 240 exhibitors and 3000 professionals along the chain of rubber and elastomers are expected to attend.

Some of them are our German distributor (Richard Hess MBV) and Elastocon. At this exhibition, too, we will show our newest addition for the stress relaxation test equipment, ALE-test (see separate article).

If you visit DKT – please come by us and say hello!

Installation in Hungary

Customer Mrs Vanda Szöke and our agent Mr Christian Thonauer surrounded of our green instruments.



In November Elastocon had an installation of a new relaxation system at a customer's facility in Hungary.

This time it was Semperform that chose to extend their existing test system with another standalone stress relaxation system.

Since it was our agent in Austria who sold this equipment, I was also given the opportunity for a quick stroll through some of the many Christmas markets in Vienna. You can see one of these Christmas markets in the image to the right.



Anna Anderzén

Installation in Czech Republic



Mr Robert Valek and Mrs Marie Novotna in Membrain's well equipped laboratory in Czech Republic.

Our agent in Czech Republic sold a stress relaxation system to a company that develops membrane.

They choose our EB 23LTP cell ageing oven with cycling temperature and water cooling for their system.

In January I was there together with our local agent for the installation in a nice and well equipped laboratory. According to information I had afterwards the customer is satisfied and has good use of the test system.

Anna Anderzén

Installation at Exova in Linköping, Sweden

The week before Christmas Ann-Cathrine happened to be double booked. Since she can't be at two places at the same time, I got the opportunity to go on an installation at a Swedish customer.

This was Exova in Linköping that purchased a new TR-tester. The installation went fine and I got the opportunity to meet some of our Swedish customers as a change. Something that was extra fun for me was that I could visit my daughter during the same trip, she studies at the Linköping University so I don't see her as often as I want to.

Anna Anderzén



Campus Valla at Linköping University.

New managing director for Elastocon

Mr. Martin Spetz has been appointed as managing director for Elastocon AB. He will also continue as Technical Director for the company. Mr. Göran Spetz will continue as Chairman of the board and as Manager for Marketing and Sales.

The founder of the company, Mr. Göran Spetz started Elastocon in 1987 at his home. During the years the company grew and is now a highly regarded company manufacturing quality instruments for testing of polymer materials, mainly rubber and plastic. The emphasis is on instruments for testing material properties for developing of materials, e.g. ageing, stress relaxation, low temperature properties etc.

Today the company Elastocon works with agents/distributors in almost 40 countries and has exported instruments to approximately 70 countries all around the world. The base from which the technicians travel all around the world is located in Borås, Sweden.



Mr. Martin Spetz is new managing director for Elastocon AB.

ISO TC 45 meeting in Cape Town

2014 year's meeting of ISO TC 45 Rubber and Rubber Products, was held first week of November in Cape Town, South Africa.

Sweden was represented by Mrs. Ann-Cathrine Magna and Mr. Göran Spetz from Elastocon and Mrs. Mia Lindberg, Project Manager from SIS.

Sweden participates mainly in SC2 Testing and analysis that has six working groups, as well as the working groups Sealing rings and Materials in SC4 Products. Ann-Cathrine is the Chairman of



the working group Sealing rings and Göran is the Chairman of the working groups Viscoelastic test methods, Inter-Laboratory Tests and Materials.

Elastocon also offers worldwide calibration and polymer testing commissioned by customers, e.g. stress relaxation, estimation of life time, low temperature tests etc.

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