

THE MINI-SBI CONCEPT

Reduce costs and time to market with a scaled down test





Background

During the product development process, fire performance is often identified as a barrier to launching a product to market. Traditionally, product developers have had no option but to perform full-scale tests to achieve information about how their product behaves in a fire situation. These tests are costly, time-consuming, and can be prohibitive to an agile development process. Therefore, DBI has developed an apparatus – the Mini-SBI – that can support producers in the product development process by reducing time-to-market and the costs involved while gaining a deeper knowledge about the fire-technical performance of the product.

Outputs from the Mini-SBI test

The Mini-SBI measures Heat Release Rate (HRR) via oxygen consumption calorimetry, the same as in the SBI. By taking advantage of the results, we can produce the below outputs:

- S-FIGRA scaled FIGRA (Fire Growth RAte)
- S-THR scaled THR (Total Heat Release)
- S-SMOGRA scaled SMOGRA (SMOke GRowth RAte)
- S-TSP scaled TSP (Total Smoke Production)

The results from the test will be supplied in a standard reporting format including results, graphs for the test subjects plus a graph of a known material for comparison.











About DBI

At DBI – the Danish Institute of Fire and Security Technology – we are dedicated to supporting innovation and growth by continuously developing new technological knowledge. We offer a wide range of services within fire prevention, consultancy, fire investigation, security, as well as courses and training – all aimed at helping our customers achieve the best safety solutions. Our 3,000-square-meter headquarters, located just 20 minutes from Copenhagen Airport, houses an advanced fire laboratory with various furnaces for all types of fire testing. We work globally, and our fire test reports are recognized worldwide.

At DBI, we work to secure lives and assets. Visit our website for more information: dbigroup.dk