

Invented for life



BOSCH

Filter Testing Lab - Bosch Limited



Bosch India: Excellence in Technology and Services.

Bosch, in India, is a leading supplier of technology and services in the areas of mobility solutions, industrial technology, consumer goods, energy and building technology. Additionally Bosch in India has one of the largest development centres outside of Germany for end-to-end engineering and technology.

The Bosch Group of Companies in India

The Bosch group operates in India through fourteen companies: Bosch Limited – the flagship company of the Bosch Group in India, Bosch Chassis Systems India Private Limited, Bosch Rexroth (India) Private Limited, Bosch Global Software Technologies, Bosch Automotive Electronics India Private Limited, Bosch Electrical Drives India Private Limited, BSH Home Appliances Private Limited, ETAS Automotive India Private Limited, Robert Bosch Automotive Steering Private Limited, Automobility Services and Solutions Private Limited, Newtech Filter India Private Limited, and Mivin Engg. Technologies Private Limited

100 Years of
Bosch in India



100-year legacy in India

A spark that ignited the fire of innovation turns 100. The Bosch India saga began in 1922; and for a century, India has been a witness to the best of German engineering and Indian entrepreneurship. Bosch India opened its first sales agency in Kolkata in 1922. From these beginnings, it now encompasses 18 manufacturing sites and 7 development and application centers, employing close to 31,500 associates. The Bosch group in India has close to 15,560 R&D Associates. Its century-long journey, rooted in a legacy of excellence, has always been about moving into new business areas.

Filter Testing lab, Bosch Limited

The Filter Testing Lab is a state-of-the-art facility with the latest filter testing equipment, located in Bosch Limited's headquarters in Bengaluru.

The lab is dedicated to Product testing including filter media, field investigations and QZ tests with a competent team. This lab is accredited with ISO 17025:2017 by NABL.



Filter Test Benches

Test Bench	Standard
Fabrication integrity of filter element	ISO 2942
Differential Pressure test	ISO 4020 6.3
Particle separation efficiency test	ISO 19438-2003-11
Water separation efficiency test	ISO 16332 ISO 4020 6.5
Collapse pressure test	ISO 4020 6.6
Burst pressure test	ISO 4020 6.7
Pressure pulsation test	ISO 4020 6.8

Filter Testing Equipment

Particle Separation Efficiency Test Bench Multi-pass Test Bench:

- ▶ Test: To measure the Particle Separation Efficiency Test Bench (Multi-pass Test Bench) & dust holding capacity
- ▶ ISO: ISO 19438:2013-11
- ▶ Application: Diesel filters, Gasoline Filters, Media flat sheet



Water Separation Efficiency Test Bench

- ▶ Test: To determine the quantity of water separated by the filter from a water-oil dispersion
- ▶ ISO: ISO 4020-clause 6.5 & ISO 16332:2006-09 & 2018-04
- ▶ Application: Diesel filters & field return filters (Used)



Differential Pressure Test Bench

- ▶ Test: To measure the differential pressure across the filter at the filter's rated flow
- ▶ ISO: ISO 4020- clause 6.3
- ▶ Application: Diesel filters, Media flat sheet, Field return filters



Pressure Pulsation Test Bench

- ▶ Test: The purpose of this test is to determine the mechanical resistance of the complete filter to pulsating pressure such as would occur under service conditions
- ▶ ISO: ISO 4020-clause 6.8
- ▶ Application: Diesel filters & gasoline filters

Filter Element Collapse Test Bench

- ▶ Test: The purpose of this test is to determine the resistance of the filter element to rupture under applied differential pressure
- ▶ ISO: ISO 4020-clause 6.6
- ▶ Application: Diesel filters & gasoline filters



Burst Pressure Test Bench:

- ▶ Test: The purpose of this test is to determine the mechanical resistance of the complete filter to internal pressure
- ▶ ISO: ISO 4020-clause 6.7
- ▶ Application: Diesel filters & gasoline filters



Services offered



Fabrication integrity Test bench:

- ▶ Test: To permit the localisation of the largest pore of the filter element by determining the first bubble point
- ▶ ISO: ISO 2942-2004-08
- ▶ Application: all types of filter element



Media burst pressure test in wet & dry condition



Media thickness test



Max pore & mean pore test (Porometer)

- ▶ Filter media testing

We also do:

- ▶ Preparing of Design Validation Plan (DVP)
- ▶ Validation of filters as per DVP
- ▶ Bench marking of diesel filters

The state-of-the-art Filtration Test Lab



For further Information regarding testing services support, please get in touch with:

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