

## CNG and LNG testing and certification



**Kiwa can test and certify your components of automotive vehicles using compressed natural gas (CNG) and Liquefied natural gas (LNG) in their propulsion system, according to the Regulation No. 110 (R110). Further we can perform the ISO 15500, and American Standards as well.**

**The stricter environmental standards become, the larger the scope for using alternative fuels and other drive systems. Hydrogen, natural biogas, hybrids and fuel cells, all of these alternatives are rapidly becoming reality. Kiwa is your all-round partner in the automotive industry.**

Kiwa offers manufacturers of components for automotive vehicles using compressed natural gas (CNG) or liquefied natural gas (LNG) testing and certification services as well as electromagnetic compatibility and several climatic tests. Kiwa is authorised to issue the E4 certification by the Dutch Vehicle Authority (RDW), one of the most renowned certification authorities in the world. Outside of Europe, Kiwa can support you for the testing and certification for many other marketplaces, such as North America and Australia.

The various components are:

- Containers (or cylinders/tanks)
- Accessories fitted to the cylinders/tanks
- Pressure regulators
- Automatic valves
- Manual valves
- Gas supply devices
- Gas flow adjusters
- Flexible fuel lines
- Rigid fuel lines
- Filling units or receptacles

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- Non-return valves
- Pressure relief valves (discharge valves)
- Pressure relief devices (temperature triggered)
- Filters
- Pressure or temperature sensors / indicators
- Excess flow valves
- Service valves
- Electronic control units
- Gas-tight housings
- Fittings
- Ventilation hoses

If your product is not listed here, please contact us!

### **R110**

If you wish to launch your automobile with one of the CNG components on the European market, you are compelled to certify all those components that use compressed natural gas (CNG) or Liquefied natural gas (LNG) in their propulsion system, according to the Regulation No. 110 (R110). For the European market it is compelled to have an E mark on your products. Besides, it is preferable and recognized in the Middle East and Asian countries.

You can ask for a quotation or information either by phone or e-mail. Starting point for a quotation is Regulation No. 110 (R110). After approval of the quotation by both parties the actual test work starts. A certificate will be sent to you by RDW when all the test work has been performed successfully and you have entered into a surveillance agreement with Kiwa. For specific information about the R110 please visit the [UNECE](#) website.