

## CNG testing and certification



**Kiwa can test and certify your components of automotive vehicles using compressed natural gas (CNG) in their propulsion system, according to the Regulation No. 110 (R110). The stricter environmental standards become, the larger the scope for using alternative fuels and other drive systems. Hydrogen, natural biogas, hybrids and fuel cells, are all alternatives that are rapidly becoming reality.**

Relevant to manufacturers of components for automotive vehicles using compressed natural gas (CNG).

### **What is CNG testing and certification**

Kiwa offers testing and certification services of automotive components for LPG, CNG, LNG and hydrogen sectors, as well as electromagnetic compatibility and several climatic tests. Kiwa is authorized to issue the E4 certification by the Dutch Vehicle Authority (RDW), one of the most renowned certification authorities in the world.

### **CNG testing and certification in Europe, North America and Australia**

Outside Europe, Kiwa can support you for the testing and certification in many other marketplaces, such as North America (thanks to an agreement with CSA) and Australia (thanks to an agreement with SAI Global).

For specific information about the R110 please visit the [UNECE](#) website.

### **CNG components**

The various components are:

- Containers (or cylinders)
- Accessories fitted to the cylinders

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nl.kiwa-ecp@kiwa.nl  
+31 (0) 88 998 34 51

- Pressure regulators
- Automatic valves
- Manual valves
- Gas supply devices
- Gas flow adjusters
- Flexible fuel lines
- Rigid fuel lines
- Filling units or receptacles
- 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 by filling out the 'Request Quotation' form.

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) in their propulsion system, according to Regulation No. 110 (R110). For the European market you must have an E trademark on your products as well as being preferable in the Middle East and Asian countries.

### **Getting certified with Kiwa**

The 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.

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