

ICS 13.040.50  
Z 64

**GB**

NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA

**GB 18352.6-2016**

Partly replacing GB 18352.5-2013

---

**Limits and measurement methods for emissions from  
light-duty vehicles  
(CHINA 6)**  
轻型汽车污染物排放限值及测量方法  
(中国第六阶段)

**Issued on: December 23, 2016**

**Implemented on: July 01, 2020**

**Issued by: General Administration of Quality Supervision, Inspection and  
Quarantine;  
Ministry of Environmental Protection.**

# Ministry of Environmental Protection of P. R. China

## Announcement

No. 79 of 2016

In order to implement the "Environmental Protection Law of the People's Republic of China" and the "Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution", prevent and control pollution, protect and improve the ecological environment, and safeguard human health, the "Limits and measurement methods for emissions from light-duty vehicles (CHINA 6)" is now approved as the national pollutant discharge standard, which is jointly issued by the Ministry and the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China.

The standard name and number are as follows:

Limits and measurement methods for emissions from light-duty vehicles (CHINA 6) (GB 18352.6-2016).

According to relevant laws and regulations, this standard has the effect of mandatory execution.

This standard will take effect from the date of issue, that is, from the date of issue, new vehicle type inspections can be carried out in accordance with this standard. From July 1, 2020, all light-duty vehicles sold and registered shall meet the requirements of this standard.

The standard is published by China Environmental Publishing House, and the content of the standard can be found on the website of the Ministry of Environmental Protection (bz.mep.gov.cn).

From July 1, 2020, this standard will replace the "Limits and measurement methods for emissions from light-duty vehicles (CHINA 5)" (GB 18352.5-2013). However, before July 1, 2025, the "in-use conformity inspection" of the fifth stage of light-duty vehicles shall still implement the relevant requirements of GB 18352.5-2013.

Hereby the announcement is made.

Ministry of Environmental Protection

December 23, 2016

# Table of Contents

|                                                                                                                            |     |
|----------------------------------------------------------------------------------------------------------------------------|-----|
| Foreword.....                                                                                                              | 5   |
| 1 Scope .....                                                                                                              | 8   |
| 2 Normative references .....                                                                                               | 9   |
| 3 Terms and definitions .....                                                                                              | 10  |
| 4 Pollution control requirements.....                                                                                      | 17  |
| 5 Type inspection.....                                                                                                     | 18  |
| 6 Type inspection extension.....                                                                                           | 28  |
| 7 Production consistency.....                                                                                              | 35  |
| 8 In-use conformity .....                                                                                                  | 41  |
| 9 Implementation of standard .....                                                                                         | 42  |
| Appendix A (Normative) Type inspection material.....                                                                       | 43  |
| Appendix B (Informative) Type inspection report format.....                                                                | 80  |
| Appendix C (Normative) Exhaust emission test after cold start at normal temperature (type I test) .....                    | 88  |
| Appendix D (Normative) Actual running pollutant emission test (type II test) .....                                         | 274 |
| Appendix E (Normative) Crankcase pollutant emission test (type III test).....                                              | 356 |
| Appendix F (Normative) Evaporative pollutant emission test (type IV test) .....                                            | 359 |
| Appendix G (Normative) Pollution control device durability test (type V test) .....                                        | 387 |
| Appendix H (Normative) Emission test of CO, THC and NOx in exhaust after cold start at low temperature (type VI test)..... | 407 |
| Appendix I (Normative) Refueling pollutant emission test (type VII test) .....                                             | 414 |
| Appendix J (Normative) Onboard diagnostic (OBD) system .....                                                               | 438 |
| Appendix K (Normative) Technical requirements for reference fuels .....                                                    | 574 |
| Appendix L (Normative) Special requirements for LPG or natural gas (NG) fueled vehicles .....                              | 580 |
| Appendix M (Normative) Type inspection of alternative pollutant control device for independent technical assembly .....    | 583 |
| Appendix N (Normative) Production consistency assurance requirements...                                                    | 596 |
| Appendix O (Normative) In-use conformity .....                                                                             | 599 |
| Appendix P (Normative) Technical requirements for vehicles using reactants in                                              |     |

|                                                                                                         |     |
|---------------------------------------------------------------------------------------------------------|-----|
| exhaust aftertreatment systems .....                                                                    | 613 |
| Appendix Q (Normative) Emissions test procedures for vehicles with periodic<br>regeneration system..... | 618 |
| Appendix R (Normative) Hybrid electric vehicle (HEV) test.....                                          | 624 |

china-standards.org · PREVIEW

## Foreword

In order to implement the “Environmental Protection Law of the People's Republic of China” and the “Law of the People's Republic of China on Prevention and Control of Atmospheric Pollution”, to prevent and control the pollution of motor vehicles and improve the quality of the ambient air, this standard is hereby formulated.

This standard specifies the requirements for the CHINA 6 type inspection requirements, the consistency of production, and the inspection and determination methods for conformity of emissions from light-duty vehicles. Manufacturers are obliged to ensure that the vehicles they produce and sell meet the requirements for in-use conformance of this standard.

Compared with GB 18352.5-2013 “Limits and measurement methods for emissions from light-duty vehicles (CHINA 5)”, the main changes in this standard include:

- CHANGE the type I test cycle, TIGHTEN the pollutant emission limits, ADD the measurement requirements for the number of particulate emissions from gasoline vehicles;
- DESIGNATE the real driving emission (RDE) test as type II test;
- TIGHTEN the Type VI test items and limits;
- REVISE technical requirements for monitoring items, thresholds and monitoring conditions for on-board diagnostic systems;
- REVISE the relevant requirements for obtaining vehicle on-board diagnostic systems and vehicle maintenance and repair information;
- REVISE the determination method of production consistency inspection and the relevant requirements for the in-use conformance inspection;
- REVISE the technical requirements for test fuels;
- ADD requirements for control of pollutants in the refueling process;
- ADD test requirements for hybrid electric vehicles.

This part of the standard modifies and uses European Union (EC) No 715/2007 “Regulations on Type Approval of Pollutants Emitted by Light Passenger Vehicles and Commercial Vehicles and Regulations on Obtaining Maintenance and Repair Information for Vehicles”, (EC) No 692/2008 “Regulations on (EC) the Implementation and Revision of (EC) No 715/2007 Regulations on Type Approval of Pollutants Emitted by Light Passenger Vehicles and Commercial