



**PROFESSIONAL STANDARD OF THE PEOPLE'S
REPUBLIC OF CHINA**

中华人民共和国汽车行业标准

QC/T 744-2006

**Nickel-metal Hydride Batteries for Electric
Vehicles**

电动汽车用金属氢化物镍蓄电池

Issued on March 07, 2006

Implemented on August 01, 2006

Issued by the National Development and Reform Committee

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National Development and Reform Committee

NOTICE

No.18 2006

Eight-nine industry standards (number and title of standards see Annex) such as *Blanks for cemented carbide sealing ring*, etc. are approved by National Development and Reform Committee, where, forty non-ferrous metal industry standards, seventeen coal industry standards, six textile industry standards, seven building materials industry standards, one physical distribution industry standard, 18 auto industry standards, are hereby issued. Since August 1, 2006, above standards will be implemented.

Above non-ferrous metal industry standards, textile industry standards and physical distribution industry standards are published by China Standards Press, coal industry standards are published by Coal Industry Press, building material industry standards are published by China Building Materials Industry Press, auto industry standards are published by China Plan Publishing Company.

Attachment: Eighteen numbers and titles of auto industry standards

National Development and Reform Committee of the P. R. China

March 07, 2006

Attachment:**Eighteen Numbers and Titles of Auto Industry Standards**

S/N	Number of Standard	Title of Standard	Number of Standard to be Replaced
72	QC/T 741-2006	Ultracapacitors for Vehicles	
73	QC/T 742-2006	Lead-acid batteries for electric vehicles	
74	QC/T 743-2006	Lithium-ion batteries for electric vehicles	
75	QC/T 744-2006	Nickle-metal hydride batteries for electric vehicles	
76	QC/T 745-2006	Rubber pipelines for liquefied petroleum gas vehicles	
77	QC/T 746-2006	High pressure pipelines for compressed natural vehicles	
78	QC/T 33-2006	Test methods of viscous fan clutch for automotive engines	QC/T 33-1992
79	QC/T 747-2006	Specifications of viscous fan clutch for automotive engines	
80	QC/T 748-2006	The bench test methods of valve-valve holder intensify abrasion for automotive engines	
81	QC/T 471-2006	Specifications for auto diesel engines	QC/T 471-1999
82	QC/T 749-2006	Tree sprinkling tanker	
83	QC/T 750-2006	General specifications for cleaning tanker	
84	QC/T 54-2006	Street sprinklers	QC/T 29114-1993 QC/T 54-1993
85	QC/T 53-2006	Suction-type excrement tanker	QC/T 29113-1993 QC/T 53-1993
86	QC/T 51-2006	Sweeper truck	QC/T 29111-1993 QC/T 51-1993
87	QC/T 751-2006	Method of durability test for catalytic converter of motorcycle and moped	
88	QC/T 752-2006	General specifications for catalytic converters of motorcycles and mopeds	
89	QC/T 753-2006	Motorcycles and mopeds-The form format of technical parameters	

Foreword

Annex A and Annex B of this Standard is Normative.

This Standard was proposed by National Technical Committee on Road Vehicles of Standardization Administration of China.

This Standard was under the jurisdiction of National Technical Committee on Road Vehicles of Standardization Administration of China.

Main draft units of this Standard are National Development Center of High-technology Green Materials, North Auto Quality Supervision and Inspection Laboratory and Eighteenth Research Institute of CETC.

Main drafters of this Standard are Wu Feng, Wang Zidong, Wang Jiqiang, Xiao Chengwei, Mao Licai, Zhao Shuhong, Li Li, Wang Weijia, etc.

Nickel-metal Hydride Batteries for Electric Vehicles

1 Scope

This Standard specifies the requirement, test method, inspecting-rules, symbols, package, transporting and storage of Nickel-metal hydride batteries for electric vehicles.

This Standard is applicable to the Nickel-metal hydride batteries for electric vehicles. The nominal voltage of single battery is 1.2 V and battery package is $n \times 1.2 \text{ V}$ (n is the number of cells, $n \geq 5$).

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 2900.11 Terminology of (secondary) cell or battery (eqv IEC 60050(482): 2003)

3 Terms, Definitions and Symbols

3.1 Terms and Definitions

For the purposes of this Standard, the terms and definitions given in GB/T 2099.11 apply

3.1.1

high energy density battery

The battery characterized by high energy density and mainly used for high energy output.

3.1.2

high power density battery

The battery characterized by high power density and mainly used for instance output of high energy and battery input.

3.1.3

sweep cycle

Scan it respective once for the journey to and fro within the specified frequency range, for example: 10Hz ~ 55 Hz ~ 10 Hz.

3.2 Symbol

C_3 – Rated capacity with 3h power ($A \cdot h$);

I_3 – Discharge current with 3h power, its value equal with $C_3 / 3$ (A).

4 Classification

The nick-metal hydride batteries for electric vehicles can be divided into the square battery and cylindrical battery.



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