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

中华人民共和国国家标准

GB 1787–2008

Replace GB 1787–1979

Aviation piston engine fuels

航空活塞式发动机燃料

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**Issued by General Administration of Quality Supervision, Inspection
and Quarantine of the People's Republic of China**

**Standardization Administration of the People's Republic of
China**

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Foreword

Clause 4 and Clause 5 of this Standard are mandatory, the rest are recommendatory.

This Standard is equivalent to ASTM D 910-04a *Standard Specification for Aviation Gasolines*.

This Standard will replace GB 1787-1979 Aviation gasoline. Comparison with GB 1787-1979, main changes of this Standard are as follows:

- add of Clause 2 “Normative references”;
- add of test methods such as density, oxidation stability, aromatic and water reaction indicators into Table 1;
- changed the crystallization point as freezing point;
- changed the determination of distillation range as specified in GB/T 6536, added the sum of 40% evaporating temperature, end point of distillation, 10% and 50% evaporating temperature;
- add of GB/T 11140 *Petroleum products; Determination of sulfur; X-ray spectrometry*, GB/T 17040 *Petroleum products--Determination of sulfur--Energy-dispersive X-ray fluorescence spectroscopy*, SH/T 0253 *Light petroleum products- Determination of sulphur content- Coulometric method*, SH/T 0689 *Standard test method for determination of total sulfur in light hydrocarbons motor fuels and oils by ultraviolet fluorescence* and GB/T 8019 *Motor gasoline and aviation fuels; Determination of existent gum; Jet evaporation method* into test methods;
- add of Clause 3 “Classification and marking”;
- add of Clause 5 “Inspection rules”.

This Standard is proposed by National Technical Committee (SAC/TC 280) on Petroleum Products and Lubricants of Standardization Administration of China.

This Standard is under the jurisdiction of China Petrochemical Corporation.

The responsible drafting organizations are SINOPEC CORP. Research Institute of Petroleum Processing and CNPC Lanzhou Petrochemical Co., Ltd.

The chief drafting staff of this standard includes Gong Dongmei, Tao Zhiping, Zhao Liping, Cui Wenfeng, Feng Shaoyan.

This Standard was issued on 1979 for the first time, this is revision for the first time.

Aviation piston engine fuels

1 Scope

This standard specifies the classification and labeling, requirements, test methods, inspection rules, marking, packaging, transportation and storage for raw material and aviation piston engine fuel produced through technology and added with appropriate additive and which pass the identification procedures specified by the nation.

This product is applicable to aviation piston engine.

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 258 Determination of acidity of gasoline, kerosene and diesel fuels

GB/T 259 Petroleum products-Determination of water-soluble acids and alkalis

GB/T 380 Determination of sulfur content in petroleum products (lamp method)

GB/T 503 Test method for knock characteristics of motor and aviation fuels by the motor method

GB/T 1793 Standard test method for water reaction of aviation fuels

GB/T 1884 Crude petroleum and liquid petroleum products--Laboratory determination of density--Hydrometer method (GB/T 1884-2000, eqv ISO 3675:1998)

GB/T 1885 Petroleum measurement tables (GB/T 1885-1998, eqv ISO 91-2:1991)

GB/T 2429 Aviation fuels-Calculation of net heat of combustion (GB/T 2429:1988, eqv ISO 3648:1976)

GB/T 2430 Jet fuels; Determination of freezing-point



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