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**High strength low alloy structural steels**  
**低合金高强度结构钢**

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# High strength low alloy structural steels

## 1. Scope

This Standard specifies the designation, dimension, shape, weight, tolerance, technical requirements, testing methods, inspection regulations, packing, marks and quality certificate of the high strength low alloy structural steels

This Standard is applicable to common structural high strength low alloy steel sheets, steel straps and shapes and steel sticks.

## 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 222 Method of sampling steel for determination of chemical component and permissible variations for product analysis.

GB/T 223.5 Methods for chemical analysis of iron, steel and alloy The reduced molybdosilicate spectrophotometric method for the determination of acid-soluble silicon content

GB/T 223.10 Methods for chemical analysis of iron, steel and alloy—The cupferron separation-chrome azurol S photometric method for the determination of aluminium content

GB/T 223.12 Methods for chemical analysis of iron, steel and alloy—The sodium carbonate separation-diphenyl carbazide photometric method for the determination of chromium content

GB/T 223.14 Methods for chemical analysis of iron, steel and alloy — The N-benzoyl-N-phenylhydroxylamine extraction photometric method for the determination of vanadium content

GB/T 223.16 Methods for chemical analysis of iron, steel and alloy—The chromotropic acid photometric method for the determination of titanium content

GB/T 223.19 Methods for chemical analysis of iron, steel and alloy—The neocuproine-chloroform extraction photometric method for the determination of copper content

GB/T 223.24 Methods for chemical analysis of iron, steel and alloy— The extraction separation-The dimethylglyoxime spectrophotometric method for the determination of nickel content

GB/T 223.27 Methods for chemical analysis of iron, steel and alloy—The thiocyanate-butyl acetate extraction spectrophotometric method for the determination of molybdenum content

GB/T 223.37 Methods for chemical analysis of iron, steel and alloy—The indophenol blue photometric methods for the determination of nitrogen content after distillation separation

GB/T 223.39 Methods for chemical analysis of iron, steel and alloy—The sulphochlorophenol S photometric method for the determination of niobium content

GB/T 223.62 Methods for chemical analysis of iron, steel and alloy—The butyl acetate extraction photometric method for the determination of phosphorus content

GB/T 223.63 Methods for chemical analysis of iron, steel and alloy— The sodium(potassium)periodate photometric method for the determination of manganese content

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