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ENTERPRISE STANDARD OF THE
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Q/BQB 312-2018

Advanced high-strength continuously-hot-rolled steel sheets and strips for cold forming

冷成形用先进高强度热连轧钢板及钢带

Issued on: February 7, 2018

Issued by: Baoshan Iron and Steel Co., Ltd.

Table of Contents

Enterprise commitments	3
Technical Indexes 1	4
1 Dimension, shape, weight and tolerances	5
2 Technical requirements	5
3 Inspection and test.....	8

Enterprise commitments

The content of Q/BQB 312-2018, *Advanced high-strength continuously-hot-rolled steel sheets and strips for cold forming*, which was drafted and issued by our corporation, complies with the requirements of relevant national laws and regulations, compulsory standards and relevant industrial policies. It was issued by the corporate representative in the procedures specified. The products of our corporation comply with all technical requirements of this Standard; a reference to this Standard is indicated on the products' package. Our corporation is responsible for the authenticity, accuracy and legitimacy of the information declared and bears all legal liabilities for the consequences caused by the implementation of this Standard.

Baoshan Iron and Steel Co., Ltd.

February 7, 2018

Technical Indexes 1

Names of indexes: the major technical indexes such as compositions and properties

Requirements for indexes: for the major technical indexes, such as compositions and properties, and their test methods, see annexes (see page 4 for details).

Table 7

Designation	Tensile test ^a				Average limit hole expansion rate/%
	Lower yield strength ^{b,c} ReL/MPa	Tensile strength R _m /MPa	Percentage elongation after fracture ^d /%		
			L ₀ = 80 mm, b = 20 mm	L ₀ = 50 mm, b = 25 mm	
BR300/450HE	300 ~ 400	450 ~ 600	≥ 24	≥ 27	≥ 80
BR440/590HE (BR440/580HE)	440 ~ 600	590 ~ 700	≥ 15	≥ 18	
BR600/780HE	600 ~ 760	780 ~ 900		≥ 15	≥ 50
FB590	440 ~ 600		≥ 15	≥ 18	
FB780	≥ 680	780 ~ 900	≥ 12	≥ 15	≥ 50

^a The specified values of tensile test apply to longitudinal test pieces.

^b When yield is not obvious, use R_{p0.2}.

^c As agreed by the interested parties, the minimum yield strength is not required.

^d For thickness ≤ 3 mm, it is specified that the minimum elongation after fracture is reduced by 2%. If the purchaser does not specify the dimensions of test pieces, use L₀ = 50 mm, b = 25 mm.

Table 8

Designation	Tensile test ^a			180° bend test ^b d – diameter of bend centre a – thickness of test piece
	Lower yield strength ^{c,d} ReL/MPa	Tensile strength R _m /MPa	Percentage elongation after fracture ^d / % (L ₀ = 80 mm, b = 20 mm)	
BR900/1200MS	900 ~ 1150	≥ 1180	≥ 5	d = 8a

^a The specified values of tensile test apply to longitudinal test pieces.

^b The specified values of tensile test apply to lateral test pieces, with the width of bend test piece b ≥ 20 mm and b = 20 mm in arbitration test.

^c When yield is not obvious, use R_{p0.2}.

^d As agreed by the interested parties, the minimum yield strength is not required.

Table 9

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