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ENTERPRISE STANDARD OF
BAOSHAN IRON AND STEEL CO., LTD

Q/BQB 266-2020

Replacing Q/BQB 266-2018

**Corrosion Resistant 13Cr Martensitic Stainless-Steel
Tubing and Casing**

13Cr 马氏体不锈钢抗腐蚀系列油管和套管

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Table of Contents

Foreword.....	3
Introduction	4
1 Scope.....	5
2 Normative References	5
3 General	5
4 Representation Methods of Designations, Terms, Definitions, Symbols and Abbreviations	6
5 Information to be Provided by the Purchaser	6
6 Manufacturing Methods	7
7 Material Requirements.....	7
8 Dimensions, Weights, Tolerances, Tube Ends and Defects	8
9 Coupling.....	9
10 Inspection and Testing	9
11 Surface Treatment.....	12
12 Marking	12
13 Coating, Protection, Packaging and Storage	12
14 Files	13

Corrosion Resistant 13Cr Martensitic Stainless-Steel Tubing and Casing

1 Scope

This Standard specifies the technical delivery conditions for corrosion resistant 13Cr martensitic stainless-steel tubing and casing manufactured by Baoshan Iron and Steel Co., Ltd.

This Standard is applicable to seamless tubing and casing (hereinafter referred to as tubing and casing) used in CO₂-containing oil and gas environments in oil and gas exploration of the petroleum and natural gas industry.

The steel grades of tubing and casing in this Standard are: BG13Cr-110, BG13Cr-110U, BG13Cr-110S.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this document.

ISO 13680:2010 Petroleum and Natural Gas Industries – Corrosion-Resistant Alloy Seamless Tubes for Use as Casing, Tubing and Coupling Stock – Technical Delivery Conditions

API SPEC 5B:2017 Threading, Gauging, and Inspection of Casing, Tubing, and Line Pipe Threads

API SPEC 5CT:2018 Specification for Casing and Tubing

3 General

Unless otherwise specified in this Standard, BG13Cr-110 described in this Standard corresponds to the provisions of steel grade P110 in API SPEC 5CT:2018 standard; generally, the product shall be supplied by adopting the Level-PSL1 requirements of steel grade P110 in API SPEC 5CT:2018 standard. When the contract indicates that

the product specification level is PSL2 or PSL3, it can also be supplied according to the Level-PSL2 or Level-PSL3 of the steel grade P110 in API SPEC 5CT:2018; but at this time, the specific requirements for the selected Level-PSL2 or Level-PSL3 shall be negotiated between the supplier and the purchaser and indicated in the contract.

Unless otherwise specified in this Standard, the BG13Cr-110U and BG13Cr-110S described in this Standard correspond to the provisions of steel grade 110, type 13-5-2 in the first group of the ISO 13680:2010 standard; generally, the product can be supplied by adopting the requirements for steel grade 110, type 13-5-2 in the first group of the ISO 13680:2010.

4 Representation Methods of Designations, Terms, Definitions, Symbols and Abbreviations

4.1 Representation methods of designations

The designations (steel grades) of this Standard are named according to "BG + characteristic value of strength grade + characteristic letter of use performance".

Among them, "BG" is composed of the first pinyin letter "B" of "Bao" in Baosteel Co., Ltd., and the first pinyin letter "G" of "Guan" in tubes. The characteristic value of the strength grade is the value that specifies the minimum yield strength (in ksi). The characteristic letter of use performance U means Upgrade; and S means Super; corresponding to different alloy content.

4.2 Terms, definitions, symbols and abbreviations

Unless otherwise specified in this Standard, the terms, definitions, symbols and abbreviations used in this Standard are consistent with those specified in API SPEC 5CT:2018.

5 Information to be Provided by the Purchaser

When ordering BG13Cr-110 tubing and casing manufactured in accordance with this Standard, the purchaser shall specify this standard number "Q/BQB266-2020" and steel grade on the order. For other information that the purchaser needs to provide, please refer to the provisions of Articles 5.1, 5.2 and 5.3 of API SPEC 5CT:2018 (if applicable).

When ordering BG13Cr-110U, BG13Cr-110S tubing and casing manufactured in accordance with this Standard, the purchaser shall specify this standard number "Q/BQB 266-2020" and steel grade on the order. For other information that the

provisions of Table 2. The elongation after break shall meet the corresponding requirements of steel grade P110 in API SPEC 5CT:2018.

7.3 Maximum hardness

The full wall thickness hardness test shall be carried out. The average hardness value of each position and the allowable hardness value change in the same quadrant shall comply with the provisions of Table 2.

7.4 Charpy V-notch impact test requirements

The tube body and coupling blanks of tubing and casing shall be subjected to Charpy V-notch impact test. The specimen orientation, size and minimum energy absorption requirements of all steel grades shall comply with the provisions of Table 3. If other test temperatures are required, they shall be negotiated between the supplier and the purchaser.

7.5 Special requirements

According to the requirements of the purchaser, after the negotiation between the supplier and the purchaser, the inspection of corrosion resistance items can be carried out; and the specific requirements shall be stipulated by the agreement between the two parties.

8 Dimensions, Weights, Tolerances, Tube Ends and Defects

8.1 Dimensions

Available specifications for tubing and casing are outer diameter of 73.02mm~339.72mm (2-7/8"~13-3/8"), wall thickness of 5.51mm~20.24mm (0.217"~0.797"). After negotiation between the supplier and the purchaser and indicated in the contract, other specifications can also be supplied.

8.2 Tube end

Unless otherwise specified in the contract, the tubing and casing shall use the threads specified in API SPEC 5B. According to the requirements of the purchaser, after negotiation between the supplier and the buyer and indicated in the contract, other special threads can also be used. The specific requirements are stipulated by the agreement between the supplier and the purchaser.

8.3 Other

evaluation of test results, and re-inspection rules shall all comply with the provisions of steel grade P110 in API SPEC 5CT:2018.

11 Surface Treatment

BG13Cr-110 shall meet the requirements of surface treatment for L80-13Cr in API SPEC 5CT:2018.

BG13Cr-110U and BG13Cr-110S shall meet the requirements of surface treatment in Article 10.1 of ISO 13680:2010 standard.

12 Marking

12.1 Embossed and/or lacquered markings

Unless specifically specified in the following a) ~ d), BG13Cr-110 shall take embossed and/or lacquered markings in accordance with the marking rules of steel grade L80-13Cr in API SPEC 5CT:2018. BG13Cr-110U, BG13Cr-110S shall take embossed and/or lacquered markings in accordance with marking rules of Clause 11 in ISO 13680:2010 standard:

- a) The API monogram is not marked.
- b) The implementation standard item is "Q/BQB 266-2020".
- c) The marking code of the special thread type shall comply with the agreement between the supplier and the purchaser.

12.2 Color standard

Unless otherwise specified in the contract, each steel tube shall be marked with a steel grade color standard at the position specified in the API SPEC 5CT:2018 standard; and its color and quantity shall comply with the provisions of Table 6.

13 Coating, Protection, Packaging and Storage

The coating and protection of BG13Cr-110 products shall comply with the provisions of Clause 12 of the API SPEC 5CT:2018 standard. The coating of BG13Cr-110U and BG13Cr-110S products shall comply with the provisions of Clause 12 of the ISO 13680:2010 standard. The packaging and storage of BG13Cr-110, BG13Cr-110U, and BG13Cr-110S products shall comply with the provisions of Clause 14 of the ISO 13680:2010 standard.

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