



Marine & Offshore

Certificate number: 07156/E0 BV

File number: CHA 100/04/01

Product code: 6438I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

Jiangsu Asian Star Anchor Chain Co., Ltd.
Jingjiang (Jiangsu Province) - CHINA

for the type of product

SHIP ANCHOR CHAIN CABLE

Flash butt welded studlink anchor chain cables for ships of grade Q2a or Q3a

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate is a renewal of certificate N° 07156/D0 BV expiring on 22/05/2020

This certificate will expire on: 22 May 2025

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 06 May 2020,

Jennifer Zhang



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Flash butt welded studlink anchor chain cables for ships of grade Q2a or Q3a.

Steel grade	Delivery condition	Diameter range
Q2a	Normalized (N)	from 12.5mm up to 124mm
Q3a	Quenched and Tempered (QT)	from 12.5mm up to 152mm

Chain cables manufactured by flash butt welding.

2. DOCUMENTS AND DRAWINGS :

2.1-Documents issued by Jiangsu Asian Star Anchor Chain Co., Ltd:

- "Application for extension approval" dated 16 November 2005.
- "Application for extension approval" dated 16 July 2007.
- "Approval Information - Doc N° ASAC-AI-BV-CR1502-V0" dated 20 April 2014.

2.2- Chemical composition specification on ladle of grade Q3:

C (%)	Mn (%)	Si (%)	Al (%)	S (%)	P (%)
- 0.36max	1.00min 1.90max	0.15min 0.55max	0.02min 0.065max	- 0.035max	- 0.035max

3. TEST REPORTS :

3.1-Documents issued by Jing Jiang Anchor Chain Factory :

- "A report on extension approval tests".
- "Approval Test Report by BUREAU VERITAS of Shipping Grade Q2a and Q3a Chain and Accessory" dated May 1997.

3.2-Documents issued by Jiangsu Asian Star Anchor Chain Co., Ltd:

- "Testing report for expending certificate" dated May 2002.
- "Approval test report by Bureau Veritas of shipping grade Q3 anchor chain & accessories" dated 24 October 2007.
- "test report of anchor chain accessories Grade 2" dated 19/04/2014.
- Drawing Ref.ASAC1406-06W01-124 Rev.01 dated 29/07/2014 for grade Q2a.
- Drawing Ref.ASAC1504-23W01-152 Rev.00 dated 28/04/2015 for grade Q3a.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification. Round bars supplied by Jiangyin Xingcheng Special Steel Co., Ltd and Jiangsu Shagang Group Huaigang Special Stel Co., Ltd. Round bars are to be supplied by steelmakers approved by Bureau Veritas and ordered with Bureau Veritas certificates.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The ship chain cables are to be supplied by Jiangsu Asian Star Anchor Chain Co., Ltd. in compliance with the type and the requirements described in this certificate.
- 5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
- 5.3 - BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.07156/A0 BV to No.07156/D0 BV.

*** END OF CERTIFICATE ***



Marine & Offshore

Certificate number: 39174/B0 BV

File number: MAT 5302-2014

Product code: 6435I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

Jiangsu Asian Star Anchor Chain Co., Ltd.

Jingjiang (Jiangsu Province) - CHINA

for the type of product

SHIP CHAIN CABLE ACCESSORIES

Ship chain cables accessories in grades Q2a or Q3a

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 14 Nov 2024

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 14 Nov 2019,

Jennifer Zhang



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Ship chain cables accessories such as Kenter shackles, Swivels, End shackles, Enlarged link and End link in grades Q2a or Q3a.

Steel grade	Delivery condition	Diameter range
Q2a	Normalized (N)	from 12.5mm up to 124mm
Q3a	Quenched and Tempered (QT)	from 12.5mm up to 152mm

Accessories manufactured by conventional forging process. Double taper pin end shackle (width 5.2d) in grade Q3 up to 132mm, Quenched and Tempered.

2. DOCUMENTS AND DRAWINGS :

Chemical composition specification on ladle of grade Q3 from round bar supplier:

C (%)	Mn (%)	Si (%)	Al (%)	S (%)	P (%)
- 0.36max	1.00min 1.90max	0.15min 0.55max	0.02min 0.065max	- 0.035max	- 0.035max

Chemical composition specification on ladle of grade Q3 from round bar supplier for double taper pin end shackle:

C (%)	Mn (%)	Si (%)	Cr	Ni	Cu	Al (%)	S (%)	P (%)
0.27min 0.34max	1.20min 1.90max	0.15min 0.55max	- 0.30max	- 0.30max	- 0.25max	0.02min 0.065max	- 0.035max	- 0.035max

- "Application for extension approval" issued by Jiangsu Asian Star Anchor Chain Co. and dated 16 July 2007.
- "Application for extension approval" issued by Jiangsu Asian Star Anchor Chain Co. and dated 16 November 2005.
- Double taper pin end shackle (width 5.2d) as per drawing AS12.5-AS152 Rev.0 dated 28 April 2011.

3. TEST REPORTS :

- "Test report of end shackle (double taper pin) grade Q3 diameter 132" issued by Jiangsu Asian Star Anchor Chain Co. and dated 23 May 2011.
- "Approval test report by Bureau Veritas of shipping grade Q3 anchor chain & accessories" issued by Jiangsu Asian Star Anchor Chain Co. and dated 24 October 2007.
- "Testing report for expending certificate" issued by Jiangsu Asian Star Anchor Chain Co. Ltd. on May 2002.
- "Approval Test Report by BUREAU VERITAS of Shipping Grade Q2a and Q3a Chain and Accessory" issued by JING JIANG Anchor Chain Factory - May 1997.
- "A report on extension approval tests" issued by JING JIANG Anchor Chain Factory.
- As per drawings Ref. ASAC1406-06W01-124 Rev.0; Ref. ASAC1406-06W02-124 Rev.0; Ref. ASAC1406-06W03-124 Rev.0 and Ref. ASAC1406-06W04-124 Rev.01 dated 29/07/2014.
- As per "test report of anchor chain accessories Grade 2" issued by Jiangsu Asian Star Anchor Chain Co., Ltd. (ASAC) and dated 19/04/2014.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification. Round bars are to be supplied with BV product certificate by steelmakers approved by Bureau Veritas.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The ship chain cables are to be supplied by Jiangsu Asian Star Anchor Chain Co., Ltd. in compliance with the type and the requirements described in this certificate.
- 5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
- 5.3 - BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.07156/A0 BV to No.07156/C1 BV, and No.39174/A0 BV.

***** END OF CERTIFICATE *****