

# Main Changes

## NR480 Approval of the Manufacturing Process of Metallic Materials

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The main changes in Bureau Veritas NR480 *Approval of the Manufacturing Process of Metallic Materials*, July 2026 edition with respect to the previous edition (July 2024) are as follows.

### Rules history

| July 2026 edition<br>entry into force on July 1, 2026<br><br>Contents  | Previous edition: July 2024<br>entry into force on July 1, 2024<br><br>Contents                              |
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| <b>NR480 - Approval of the Manufacturing Process of Metallic Materials</b><br><br>[NR480 DT R09 E July 2026] | <b>NR480 – Approval of the Manufacturing Process of Metallic Materials</b><br><br>[NR480 DT R08 E July 2024] |

### Overview

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This new edition aims at implementing various IACS Unified Requirements.

The organisation of the document is modified according to the following correspondence table:

| <b>NR480 - Approval of the Manufacturing Process of Metallic Materials</b><br><br>[NR480 DT R09 E July 2026] | <b>NR480 – Approval of the Manufacturing Process of Metallic Materials</b><br><br>[NR480 DT R08 E July 2024] |
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| <b>Section 1 - General</b>   | <b>Section 1 - General</b>   |
| <b>Section 2 - Steelmaking and Rolled Steel Products</b>   | <b>Section 2 - Steelmaking and Rolled Steel Products</b>   |
| <b>Section 3 - Seamless Pipes and Fittings</b>   | <b>Section 3 - Seamless Pipes and Fittings</b>   |
| <b>Section 4 - Welded Pipes and Fittings</b>   | <b>Section 4 - Welded Pipes and Fittings</b>   |
| <b>Section 5 - Steel Forgings</b>  | <b>Section 5 - Steel Forgings</b>  |
| <b>Section 6 - Steel Castings</b>  | <b>Section 6 - Steel Castings</b>  |
| <b>Section 7 - Stainless Steel Castings for Propellers</b>   | <b>Section 7 - Stainless Steel Castings for Propellers</b>   |
| <b>Section 8 - Copper Alloy Castings for Propellers</b>  | <b>Section 8 - Copper Alloy Castings for Propellers</b>  |
| <b>Section 9 - Aluminium Alloy Castings</b>  | <b>Section 9 - Aluminium Alloy Castings</b>  |
| <b>Section 10 - Wrought Aluminium Alloy Products</b>   | <b>Section 10 - Wrought Aluminium Alloy Products</b>   |
| <b>Section 11 - Explosion Bonded Aluminium/Steel Transition Joints I</b>                                     | <b>Section 11 - Explosion Bonded Aluminium/Steel Transition Joints I</b>                                     |
| <b>Section 12 - Anchor Chain Cables and Accessories for Ships</b>  | <b>Section 12 - Anchor Chain Cables and Accessories for Ships</b>  |
| <b>Section 13 - Offshore Mooring Chain Cables and Accessories</b>  |  |
| <b>Appendix 1 - Evaluation of Kca</b>  | <b>Appendix 1 - Evaluation of Kca</b>  |
| <b>Appendix 2 - Crack Arrest Temperature (CAT) Test</b>  | <b>Appendix 2 - Crack Arrest Temperature (CAT) Test</b>  |
| <b>Appendix 3 - Approval Scheme of Small-scale Test Methods for Brittle Crack Arrest Steels</b>              | <b>Appendix 3 - Approval Scheme of Small-scale Test Methods for Brittle Crack Arrest Steels</b>              |
| <b>Appendix 1 - Evaluation of Kca</b>  | <b>Appendix 1 - Evaluation of Kca</b>  |



## Section 2 – Steelmaking and Rolled Steel Products

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### General

Revision of Article [4] – Rolled products made in structural steel for high heat input welding

New Article [13] – Round bars for offshore mooring chain cables

### IACS Unified Requirements, Unified Interpretations and Recommendations

| Ref.   | Rev.   | Title / Description  | Reference                     |
|--------|--------|--|-------------------------------|
| UR W11 | Rev.10 | Normal and higher strength hull structural steels – Appendix B | Sec 2, [4.1]; [4.2] and [4.3] |
| UR W16 | Rev.04 | High Strength Steels for Welded Structures – Appendix A        | Sec 2, [4.1]; [4.2] and [4.3] |
| UR W22 | Rev.06 | Offshore mooring chain (Articles 1.5 , 2.2)                    | Sec 2, [13]                   |

## Section 5 – Steel Forgings

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### General

New Article [2] – Semi-finished products for steel forgings

### IACS Unified Requirements, Unified Interpretations and Recommendations

| Ref.  | Rev.   | Title / Description                           | Reference  |
|-------|--------|---|------------|
| UR W7 | Rev.04 | Hull and machinery steel forgings (Article 2) | Sec 5, [2] |

## Section 10 – Wrought Aluminium Alloy Products

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### General

Revision of Articles [1] – General and [3] - Wrought aluminium alloy products

New Article [2] - Semi-finished products for wrought aluminium products

### IACS Unified Requirements, Unified Interpretations and Recommendations

| Ref.   | Rev.   | Title / Description  | Reference                |
|--------|--------|--|--------------------------|
| UR W25 | Rev.06 | Aluminium Alloys for Hull Construction and Marine Structure – Appendix A | Sec 10, [1]; [2] and [3] |

## Section 13 – Offshore Mooring Chain Cables and Accessories

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### General

New Section 13

### IACS Unified Requirements, Unified Interpretations and Recommendations

| Ref.   | Rev.   | Title / Description                                       | Reference |
|--------|--------|---|-----------|
| UR W22 | Rev.06 | Offshore mooring chain (Articles 1, 2.3, 2.4, 3, 4 and 5) | Sec 13    |