

Main Changes

NR480 Approval of the Manufacturing Process of Metallic Materials

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

Overview

This new edition aims at implementing various IACS Unified Requirements.

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

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

Section 2 – Steelmaking and Rolled Steel Products

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

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

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

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