

APPLUS ITALY S.r.l. CON SOCIO UNICO
 "Società soggetta a direzione e coordinamento,
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 da parte di Applus Services S.A."
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**Controlled list of requirements (Accredited flexible scopes)
 Codes, Rules, International standards and Customer Specifications**

Cross. ref. : Accreditation certificates 01721ISPrev003_ALL_CSACI \ 01721ISPrev001_ALL_SEDI \ 01721ISPrev001_CERT as A-Type CAB

https://services.accredia.it/ppsearch/accredia_orgmask.jsp?ID_LINK=1733&area=310

Actual Reference to International Standard / Specification / Code		Remarks (*)
ASME BPVC.II Ed. 2025	BPVC Section II-Materials-Part A-Ferrous Materials Specifications (2 Volumes)	\
ASME BPVC.V Ed. 2025	BPVC Section V-Non destructive Examination	\
ASME BPVC.VIII Ed. 2025	BPVC Section VIII-Rules for Construction of Pressure Vessels Division 2-Alternative Rules	\
ASME BPVC.IX Ed. 2025	BPVC Section IX-Welding, Brazing, and Fusing Qualifications	\
ASME B16.34 - 2020	Valves--Flanged, Threaded, and Welding End	\
ASTM Section 1 - Ed. 2024	Iron and Steel Products	Or equivalent in latest edition
ASTM E8/E8M-25	Standard Test Methods for Tension Testing of Metallic Materials	Or equivalent in latest edition
ASTM E23-E23a	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials	Or equivalent in latest edition
ASTM E290-14	Standard Test Methods for Bend Testing of Material for Ductility	Or equivalent in latest edition

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<i>ASTM E10-23</i>	Standard Test Method for Brinell Hardness of Metallic Materials	Or equivalent in latest edition
<i>ASTM E18-25</i>	Standard Test Methods for Rockwell Hardness of Metallic Materials	Or equivalent in latest edition
<i>ASTM E384-22</i>	Standard Test Method for Micro indentation Hardness of Materials	Or equivalent in latest edition
<i>ASTM E92-17</i>	Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials	Or equivalent in latest edition
<i>ASTM E3047-22</i>	Standard Test Method for Analysis of Nickel Alloys by Spark Atomic Emission Spectrometry	Or equivalent in latest edition
<i>ASTM E1019-18</i>	Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Inert Gas Fusion Techniques	Or equivalent in latest edition
<i>ASTM E1086-22</i>	Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry	Or equivalent in latest edition
<i>ASTM E415-21</i>	Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry	Or equivalent in latest edition
<i>ASTM A923-23 Met B</i>	Standard Test Methods for Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	Or equivalent in latest edition

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<i>ASTM E190-21</i>	Standard Test Method for Guided Bend Test for Ductility of Welds	Or equivalent in latest edition
<i>ASTM E112-13 (2021)</i>	Standard Test Methods for Determining Average Grain Size	Or equivalent in latest edition
<i>ISO 6507-1:2023</i>	Metallic materials - Vickers hardness test Part 1: Test method	Or equivalent in latest edition
<i>ISO 6506-1:2014</i>	Metallic materials - Brinell hardness test Part 1: Test method	Or equivalent in latest edition
<i>ISO 148-1:2016</i>	Metallic materials - Charpy pendulum impact test - Part 1: Test method	Or equivalent in latest edition
<i>ISO 7438:2020</i>	Metallic materials - Bend test	Or equivalent in latest edition
<i>ISO 6508-1:2023</i>	Metallic materials - Rockwell hardness test Part 1: Test method	Or equivalent in latest edition
<i>ISO 15156:2020</i>	Petroleum and natural gas industries — Materials for use in H ₂ S-containing environments in oil and gas production Part 1: General principles for selection of cracking-resistant materials	Or equivalent in latest edition
<i>ISO 17639:2022</i>	Destructive tests on welds in metallic materials — Macroscopic and microscopic examination of welds	Or equivalent in latest edition
<i>ISO 9934:2016</i>	Non-destructive testing — Magnetic particle testing Part 1: General principles	Or equivalent in latest edition

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ISO 3452-1:2021	Non-destructive testing — Penetrant testing Part 1: General principles	Or equivalent in latest edition
ISO 17640:2018	Non-destructive testing of welds — Ultrasonic testing — Techniques, testing levels, and assessment	Or equivalent in latest edition
ISO 17637:2016	Non-destructive testing of welds — Visual testing of fusion-welded joints	Or equivalent in latest edition
ISO 17636:2022	Non-destructive testing of welds — Radiographic testing Part 1: X- and gamma-ray techniques with film	Or equivalent in latest edition
ISO 17639:2022	Destructive tests on welds in metallic materials — Macroscopic and microscopic examination of welds	Or equivalent in latest edition
ISO 5579:2013	Non-destructive testing — Radiographic testing of metallic materials using film and X- or gamma rays — Basic rules	Or equivalent in latest edition
ISO 5576: 1997	Non-destructive testing — Industrial X-ray and gamma-ray radiology — Vocabulary	This standard was last reviewed and confirmed in 2014. Therefore this version remains current - Or equivalent in latest edition
ISO 17781:2017	Petroleum, petrochemical and natural gas industries — Test methods for quality control of microstructure of ferritic/austenitic (duplex) stainless steels	Or equivalent in latest edition

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<i>ISO 9934-1:2016</i>	Non-destructive testing — Magnetic particle testing Part 1: General principles	Or equivalent in latest edition
<i>ISO 17638:2016</i>	Non-destructive testing of welds — Magnetic particle testing	Or equivalent in latest edition
<i>ISO 23278:2015</i>	Non-destructive testing of welds — Magnetic particle testing — Acceptance levels	Or equivalent in latest edition
<i>ISO 16810:2012</i>	Non-destructive testing — Ultrasonic testing — General principles	Or equivalent in latest edition
<i>ISO 9015-1:2001</i>	Destructive tests on welds in metallic materials — Hardness testing Part 1: Hardness test on arc welded joints levels	Or equivalent in latest edition
<i>ISO 9016:2022</i>	Destructive tests on welds in metallic materials — Impact tests — Test specimen location, notch orientation and examination	Or equivalent in latest edition
<i>ISO 6507-1:2023</i>	Metallic materials — Vickers hardness test Part 1: Test method	Or equivalent in latest edition
<i>ISO 6892-1:2019</i>	Metallic materials — Tensile testing Part 1: Method of test at room temperature	Or equivalent in latest edition
<i>ISO 4136:2022</i>	Destructive tests on welds in metallic materials — Transverse tensile test	Or equivalent in latest edition
<i>ISO 5173:2023</i>	Destructive tests on welds in metallic materials — Bend tests	Or equivalent in latest edition

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<i>ISO 15156-1:2020</i>	Petroleum and natural gas industries — Materials for use in H ₂ S-containing environments in oil and gas production Part 1: General principles for selection of cracking-resistant materials	Or equivalent in latest edition
<i>ISO 15156-2:2020</i>	Petroleum and natural gas industries — Materials for use in H ₂ S-containing environments in oil and gas production Part 2: Cracking-resistant carbon and low-alloy steels, and the use of cast irons	Or equivalent in latest edition (ANSI/NACE MR0175)
<i>UNE-EN 13018:2016</i>	Non-destructive testing - Visual testing - General principles	Or equivalent in latest edition
<i>API Specification 5DP, 2nd Edition</i>	API SPEC 5DP: Drill Pipe	\
<i>API Specification 5L, 46th Edition</i>	API SPEC 5L: Line Pipe	\
<i>API Specification 6A, 21st Edition</i>	API SPEC 6A: Specification for Wellhead and Tree Equipment	\
<i>API Specification 6D, 25th Edition</i>	API SPEC 6D: Specification for Valves	\
<i>API Specification 6ACRA, 1st Edition</i>	Age-Hardened Nickel-Based Alloys for Oil and Gas Drilling and Production Equipments	\

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<i>EN 10204:2004</i>	Metallic products - Types of inspection documents	Or equivalent in latest edition
<i>ISO 10474:2013</i>	Steel and steel products — Inspection documents	Or equivalent in latest edition
<i>MSS- SP25: 2018</i> (Incl. 2023 Errata Sheet)	Standard Marking System for Valves, Fittings, Flanges, and Unions (ANSI-approved American National Standard)	\
<i>ASTM G48-25</i>	Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution	Or equivalent in latest edition
<i>ASTM A923-23</i>	Standard Test Methods for Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	Or equivalent in latest edition
<i>ASTM E562-19e1</i>	Standard Test Method for Determining Volume Fraction by Systematic Manual Point Count	Or equivalent in latest edition
<i>ASTM A370-24</i>	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	Or equivalent in latest edition
<i>ASTM E139-11 (2018)</i>	Standard Test Methods for Conducting Creep, Creep-Rupture, and Stress-Rupture Tests of Metallic Materials	Or equivalent in latest edition

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ASTM E3-11	Standard Guide for Preparation of Metallographic Specimens	Or equivalent in latest edition
ASTM E407-23	Standard Practice for Microetching Metals and Alloys	Or equivalent in latest edition
ASTM SA788/SA788M-23	Standard Specification for Steel Forgings, General Requirements	Or equivalent in latest edition
EN 10228-3	Non-destructive testing of steel forgings - Part 3: Ultrasonic testing of ferritic or martensitic steel forgings	Or equivalent in latest edition
EN 10025-6:2019	Hot rolled products of structural steels - Part 6: Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition	Or equivalent in latest edition
UNI 3137:1965	Microscopic examination of ferrous materials. Sampling of specimens and test pieces, preparation and etching of test pieces (etching reagents).	Or equivalent in latest edition

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<p><i>UNI EN ISO 643:2020</i></p>	<p>Steels - Microstructural determination of apparent grain size</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM A350/A350M-26a</i></p>	<p>Standard Specification for Carbon and Low-Alloy Steel Forgings, Requiring Notch Toughness Testing for Piping Components</p>	<p>Or equivalent in latest edition</p>
<p><i>ISO 17945:2015</i></p>	<p>Petroleum, petrochemical and natural gas industries — Metallic materials resistant to sulfide stress cracking in corrosive petroleum refining environments</p>	<p>Or equivalent in latest edition (ANSI/NACE MR0103)</p>
<p><i>ASTM E45-25</i></p>	<p>Standard Test Methods for Determining the Inclusion Content of Steel</p>	<p>Or equivalent in latest edition</p>

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<p><i>ASTM A751-25</i></p>	<p>Standard Test Methods and Practices for Chemical Analysis of Steel Products</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM A694/A694M-16 (2022)</i></p>	<p>Standard Specification for Carbon and Alloy Steel Forgings for Pipe Flanges, Fittings, Valves, and Parts for High-Pressure Transmission Service</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM B564-22</i></p>	<p>Standard Specification for Nickel Alloy Forgings</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM A262-15</i></p>	<p>Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels</p>	<p>Or equivalent in latest edition</p>

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<p><i>EN 10250-2:2022</i></p>	<p>Open die steel forgings for general engineering purposes - Part 2: Non-alloy quality and special steels</p>	<p>Or equivalent in latest edition</p>
<p><i>EN 10250-3:2022</i></p>	<p>Open die steel forgings for general engineering purposes - Part 3: Alloy special steels</p>	<p>Or equivalent in latest edition</p>
<p><i>EN 10250-1:2022</i></p>	<p>Open die steel forgings for general engineering purposes - Part 1: General requirements</p>	<p>Or equivalent in latest edition</p>
<p><i>EN 10250-4:2021</i></p>	<p>Open die steel forgings for general engineering purposes - Part 4: Stainless steels</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM G28-22</i></p>	<p>Standard Test Methods for Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys</p>	<p>Or equivalent in latest edition</p>

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<p><i>ASTM A194/A194M-2022</i></p>	<p>Standard Specification for Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E1444/E1444M-26</i></p>	<p>Standard Practice for Magnetic Particle Testing for Aerospace</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E709-21</i></p>	<p>Standard Guide for Magnetic Particle Testing</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E1417/E1417M-21e1</i></p>	<p>Standard Practice for Liquid Penetrant Testing</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E165/E165M-23</i></p>	<p>Standard Practice for Liquid Penetrant Testing for General Industry</p>	<p>Or equivalent in latest edition</p>

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<p><i>ASTM E164-24</i></p>	<p>Standard Practice for Contact Ultrasonic Testing of Weldments</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E114-20</i></p>	<p>Standard Practice for Ultrasonic Pulse-Echo Straight-Beam Contact Testing</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM A435/A435M-17 R2023</i></p>	<p>Standard Specification for Straight-Beam Ultrasonic Examination of Steel Plates</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM A578/A578M-17 R2023</i></p>	<p>Standard Specification for Straight-Beam Ultrasonic Examination of Rolled Steel Plates for Special Applications</p>	<p>Or equivalent in latest edition</p>

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<p><i>ASTM E1742/E1742M-23</i></p>	<p>Standard Practice for Radiographic Examination</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E94/E94M-22</i></p>	<p>Standard Guide for Radiographic Examination Using Industrial Radiographic Film</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E1030-21</i></p>	<p>Standard Test Method for Radiographic Examination of Metallic Castings</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E1032-25</i></p>	<p>Standard Practice for Radiographic Examination of Weldments Using Industrial X-Ray Film</p>	<p>Or equivalent in latest edition</p>

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<p><i>ASTM E165/E165M-23</i></p>	<p>Standard Practice for Liquid Penetrant Testing for General Industry</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E21-20</i></p>	<p>Standard Test Methods for Elevated Temperature Tension Tests of Metallic Materials</p>	<p>Or equivalent in latest edition</p>
<p><i>ASTM E10-23</i></p>	<p>ASTM E10 Standard Test Method for Brinell Hardness of Metallic Materials</p>	<p>Or equivalent in latest edition</p>
<p><i>ISO 15350:2000</i></p>	<p>Steel and iron — Determination of total carbon and sulfur content — Infrared absorption method after combustion in an induction furnace</p>	<p>Or equivalent in latest edition</p>

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<p>ISO 14284:2022</p>	<p>Steel and iron — Sampling and preparation of samples for the determination of chemical composition</p>	<p>Or equivalent in latest edition</p>
<p>ISO 3651-2:1998</p>	<p>Determination of resistance to intergranular corrosion of stainless steelsPart 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels — Corrosion test in media containing sulfuric acid</p>	<p>Or equivalent in latest edition</p>
<p>ISO 3651-1:1998</p>	<p>Determination of resistance to intergranular corrosion of stainless steelsPart 1: Austenitic and ferritic-austenitic (duplex) stainless steels — Corrosion test in nitric acid medium by measurement of loss in mass (Huey test)</p>	<p>Or equivalent in latest edition</p>
<p>ISO 21432:2019</p>	<p>Non-destructive testing — Standard test method for determining residual stresses by neutron diffraction</p>	<p>Or equivalent in latest edition</p>

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<p>ISO 8249:2018</p>	<p>Welding — Determination of Ferrite Number (FN) in austenitic and duplex ferritic-austenitic Cr-Ni stainless steel weld metals</p>	<p>Or equivalent in latest edition</p>
<p>ASTM E340-15</p>	<p>Standard Practice for Macroetching Metals and Alloys</p>	<p>Or equivalent in latest edition</p>
<p>ISO 17637:2016</p>	<p>Non-destructive testing of welds - Visual testing of fusion-welded joints</p>	<p>Or equivalent in latest edition</p>
<p>ASME BPVC.V Art. 9:2025</p>	<p>Visual Examination</p>	<p>Or equivalent in latest edition</p>

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EN ISO 17637:2017	Non-destructive testing of welds - Visual testing of fusion-welded joints	Or equivalent in latest edition
ASTM E1417/E1417M-24	Standard Practice for Liquid Penetrant Testing	Or equivalent in latest edition
ASTM E1208-19	Standard Practice for Fluorescent Liquid Penetrant Testing Using the Lipophilic Post-Emulsification Process	Or equivalent in latest edition
ISO 3452-2:2021	Non-destructive testing - Penetrant testing - Part 2: Testing of penetrant materials	Or equivalent in latest edition

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ISO 3452-3:2021	Non-destructive testing - Penetrant testing - Part 3: Reference test blocks	Or equivalent in latest edition
ISO 3452-4:2021	Non-destructive testing - Penetrant testing - Part 4: Equipment	Or equivalent in latest edition
ISO 3452-5:2023	Non-destructive testing - Penetrant testing - Part 5: Penetrant testing at temperatures higher than 50°C	Or equivalent in latest edition
ISO 3452-6:2023	Non-destructive testing - Penetrant testing - Part 6: Penetrant testing at temperatures lower than 10°C	Or equivalent in latest edition

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EN ISO 3452-1:2021	Non-destructive testing - Penetrant testing - Part 1: General principles	Or equivalent in latest edition
ASTM E1444/E1444M-24	Standard Practice for Magnetic Particle Testing	Or equivalent in latest edition
ASTM E3024-15(2023)	Standard Practice for Magnetic Particle Testing Using Alternating Current	Or equivalent in latest edition
ISO 9934-2:2023	Non-destructive testing - Magnetic particle testing - Part 2: Detection media	Or equivalent in latest edition

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ISO 9934-3:2023	Non-destructive testing - Magnetic particle testing - Part 3: Equipment	Or equivalent in latest edition
EN ISO 9934-1:2016	Non-destructive testing - Magnetic particle testing - Part 1: General principles	Or equivalent in latest edition
ASTM E1742-24	Standard Practice for Radiographic Examination	Or equivalent in latest edition
ASTM E1025/E1025M-24	Standard Practice for Design, Manufacture, and Material Grouping Classification of Hole-Type Image Quality Indicators (IQI) Used for Radiology	Or equivalent in latest edition

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ASTM E2007-21	Standard Guide for Computed Radiography	Or equivalent in latest edition
ISO 17636-2:2022	Non-destructive testing of welds - Radiographic testing - Part 2: X- and gamma-ray techniques with digital detectors	Or equivalent in latest edition
EN ISO 17636-1:2022	Non-destructive testing of welds - Radiographic testing - Part 1: X- and gamma-ray techniques with film	Or equivalent in latest edition
ASTM E164-24	Standard Practice for Contact Ultrasonic Testing of Weldments	Or equivalent in latest edition

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ASTM E2373-23	Standard Practice for Use of the Ultrasonic Time of Flight Diffraction (TOFD) Technique	Or equivalent in latest edition
ASTM E1961-21	Standard Practice for Mechanized Ultrasonic Testing of Girth Welds Using Zonal Discrimination with Focused Search Units	Or equivalent in latest edition
ISO 16810:2022	Non-destructive testing - Ultrasonic testing - General principles	Or equivalent in latest edition
ISO 16826:2023	Non-destructive testing - Ultrasonic testing - Examination for discontinuities perpendicular to the surface	Or equivalent in latest edition

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ISO 16827:2023	Non-destructive testing - Ultrasonic testing - Characterization and sizing of discontinuities	Or equivalent in latest edition
EN ISO 17640:2023	Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment	Or equivalent in latest edition
ASTM E18-24	Standard Test Methods for Rockwell Hardness of Metallic Materials	Or equivalent in latest edition
ASTM E10-24	Standard Test Method for Brinell Hardness of Metallic Materials	Or equivalent in latest edition

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ASTM E140-24	Standard Hardness Conversion Tables for Metals Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Superficial Hardness, Knoop Hardness, Scleroscope Hardness, and Leeb Hardness	Or equivalent in latest edition
ASTM E190-14(2021)	Standard Test Method for Guided Bend Test for Ductility of Welds	Or equivalent in latest edition
ASTM E290-22	Standard Test Methods for Bend Testing of Material for Ductility	Or equivalent in latest edition
ASTM E23-24	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials	Or equivalent in latest edition

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ISO 6507-1:2023	Metallic materials - Vickers hardness test - Part 1: Test method	Or equivalent in latest edition
ISO 6508-1:2023	Metallic materials - Rockwell hardness test - Part 1: Test method	Or equivalent in latest edition
ISO 6506-1:2024	Metallic materials - Brinell hardness test - Part 1: Test method	Or equivalent in latest edition
ISO 7438:2020	Metallic materials - Bend test	Or equivalent in latest edition

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ISO 148-1:2016	Metallic materials - Charpy pendulum impact test - Part 1: Test method	Or equivalent in latest edition
EN ISO 6892-1:2019	Metallic materials - Tensile testing - Part 1: Method of test at room temperature	Or equivalent in latest edition

END OF LIST

(*) Remarks:

- Previous editions can be used according to contractual agreements with the customer. The details of the applied edition are reported in the Inspection Reports and related attachments.

-For these requirements APPLUS Italy srl has been accredited with flexible scope; for details relating to your contract for inspection activities, please contact APPLUS Italy at the following email address: infoitaly@applus.com

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