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## Astm a240/a480 pdf

Architectural purposes, escalators, kitchen ware vehicles ASTM A240/A240M Specification for Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels ASTM A480/A480M Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip ASTM A666-00 Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar JIS G4304 Hot Rolled Stainless Steel Plates, Sheets and Strip JIS G4305 Cold Rolled Stainless Steel Plates, Sheets and Strip EN 10028-7 Chemical Composition of Stainless Steel Flat Thank you for interesting in our services. We are a non-profit group that run this website to share documents. We need your help to maintenance this website. To keep our site running, we need your help to cover our server cost (about \$400/m), a small donation will help us a lot. Please help us to share our service with your friends. You are here:->.ASTM-A240-316L, ASTM A480, Austenitic Stainless A240-316L, ASTM A480, Austenitic Stainless STEELMAX Steel Story A240-316L , A240-304 ㄱ , A240-316L , ㄱ , A240-316L A240-316 — 0.08% A240-316L 0.030 maximum A240-316L . (粗野腐蝕) . HAZ ( : heat affected zone) . A240-316L A240-304L ㄱ Molybdenum A240-316L Molybdenum , (耐) , ㄱ, ASTM A240 standard specification for chromium-nickel stainless steel plate, sheet, and strip for pressure vessel and for general applications Type 316L. ASTM A480 standard specification for general requirements for flat rolled stainless and heat-resisting steel plate, sheet, and strip A240M/A480M Spec . \* (Intergranular corrosion 粗野腐蝕) (Grain boundary) Corrosion in or adjacent to the grain boundaries of the metal. \* Corrosion ( : 腐蝕) Gradual chemical or electrochemical attack on the metal by atmosphere, moisture or other agents. \* HAZ (Heat Affected Zone) ㄱ , ㄱ , ㄱ Designation A240-316L A240-304L Chemical Composition (%) Carbon (C) 0.030 max 0.030 max Silicon (Si) 0.75 max 0.75 max Manganese (Mn) 2.00 max 2.00 max Phosphorus (P) 0.045 max 0.045 max Sulfur (S) 0.030 min 0.030 min Nickel (Ni) 10.0–14.0 8.0–12.0 Chromium (Cr) 16.0–18.0 17.5–19.5 Molybdenum (Mo) 2.00–3.00 - Nitrogen (N) 0.10 max 0.10 max Yield Strength (ksi/MPa) 25/170 min 25/170 min Tensile Strength (ksi/MPa) 70/485 min 70/485 min Elongation (%) 40 min 40 min Hardness HBW 217 max 217 max HRB 95 max 92 max A240-316L, ASTM A480, Austenitic Stainless , Carbon Steel, Special Steel, Stainless, Functional, Ni-Alloy, Cu-, Al-, Co-, Ti-, Mg-, Metal, Forging, Plate, Sections, H-Beam, Round, Angle, Channel, Rail, Crane Rail, Flat, I-Beam, Pipe & Tube, SMLS. ASTM, ASME, AISI, API, SAE, AMS, KS, JIS, CSA, DIN-EN, Norsok, DNV, ABS, GL, LR, KR, NK, RS. ㄱ , Mill Maker Standards . Citius, Altius, Fortius, , , ㄱ . © Copyright 2004 . | Steelmax Image not available forColor: To view this video download Flash Player Abstract This specification covers general requirements for flat-rolled stainless and heat-resisting steel plate, sheet, and strip. The steel shall be made by one of the following processes: electric-arc, electric-induction, or other suitable processes. Heat and product analyses shall conform to the chemical requirements for each of the specific elements. The material shall undergo mechanical tests such as tension test, hardness test, and bend test. Special tests like intergranular corrosion test, permeability test, Charpy impact testing and tests for detrimental intermetallic phases in wrought duplex stainless steels shall be also be performed when required. This abstract is a brief summary of the referenced standard. It is informational only and not an official part of the standard; the full text of the standard itself must be referred to for its use and application. ASTM does not give any warranty express or implied or make any representation that the contents of this abstract are accurate, complete or up to date. 1. Scope 1.1 This specification covers a group of general requirements that, unless otherwise specified in the purchase order or in an individual specification, shall apply to rolled steel plate, sheet, and strip, under each of the following specifications issued by ASTM: Specifications A240/A240M, A263, A264, A265, A666, A693, A793, and A895. 1.2 In the case of conflict between a requirement of a product specification and a requirement of this specification, the product specification shall prevail. In the case of conflict between a requirement of the product specification or a requirement of this specification and a more stringent requirement of the purchase order, the purchase order shall prevail. The purchase order requirements shall not take precedence if they, in any way, violate the requirements of the product specification or this specification; for example, by waiving a test requirement or by making a test requirement less stringent. 1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The SI units are shown in brackets, except that when A480M is specified, Annex A3 shall apply for the dimensional tolerances and not the bracketed SI values in Annex A2. The values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other, and values from the two systems shall not be combined. 1.4 This specification and the applicable material specifications are expressed in both inch-pound and SI units. However, unless the order specifies the applicable "M" specification designation [SI units], the material shall be furnished in inch-pound units. 1.5 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee. 2. Referenced Documents (purchase separately) The documents listed below are referenced within the subject standard but are not provided as part of the standard. ASTM Standards A240/A240M Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications A262 Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels A263 Specification for Stainless Chromium Steel-Clad Plate A264 Specification for Stainless Chromium-Nickel Steel-Clad Plate A265 Specification for Nickel and Nickel-Base Alloy-Clad Steel Plate A342/A342M Test Methods for Permeability of Weakly Magnetic Materials A370 Test Methods and Definitions for Mechanical Testing of Steel Products A666 Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar A693 Specification for Precipitation-Hardening Stainless and Heat-Resisting Steel Plate, Sheet, and Strip A700 Guide for Packaging, Marking, and Loading Methods for Steel Products for Shipment A751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products A763 Practices for Detecting Susceptibility to Intergranular Attack in Ferritic Stainless Steels A793 Specification for Rolled Floor Plate, Stainless Steel A895 Specification for Free-Machining Stainless Steel Plate, Sheet, and Strip A923 Test Methods for Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels E140 Hardness Conversion Tables for Metals Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Superficial Hardness, Knoop Hardness, Scleroscope Hardness, and Leeb Hardness Federal Standard Fed. Std. No. 123 Marking for Shipment (Civil Agencies) Military Standards MIL-STD-129 Marking for Shipment and Storage MIL-STD-163 Steel Mill Products, Preparation for Shipment and Storage ICS Code ICS Number Code 77.140.50 (Flat steel products and semi-products) UNSPSC Code UNSPSC Code 30102205(Stainless steel plate); 30264800(Stainless steel strips); 30264600(Stainless steel sheets) Referencing This Standard DOI: 10.1520/A0480\_A0480M-20A Citation Format ASTM A480 / A480M-20a, Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip. ASTM International, West Conshohocken, PA, 2020, www.astm.org Back to Top Architectural trim, kitchen equipment, appliances, chemical equipment, clamps, cryogenic components, dairy equipment, evaporators, food handling equipment, hinges, marine, oil well filter screens, pressure vessels, sanitary fittings, shipping drums, textile dyeing equipment, and welded components of chemical, textile, paper, pharmaceutical and chemical industry processing equipment. Typical uses for Type 304L Stainless Steel Type 304L is used primarily in welding applications due to the low carbon content which reduces the carbide precipitation. Formability Type 304 can be easily formed into most shapes. Magnetic Properties Is generally non-magnetic and becomes slightly magnetic when cold-worked. 309, 309S and 309H stainless steel plate are chromium-nickel austenitic stainless steel grades that are commonly used in environments with elevated temperatures. Due to their high chromium and nickel content, these grades of stainless steel plate are highly corrosive resistant and have outstanding resistance to oxidation as well as excellent heat resistance. This type of stainless steel also provides excellent strength at room and elevated temperatures. The main difference between 309 and 309S stainless steel lies in the carbon content. 309S contains much less carbon which minimizes carbide precipitation and improves weldability. 309H differs from 309 plate in the amount of carbon as well. 309H contains more carbon than 309, this results in an enhanced creep resistance. This plate is available for purchase at Penn Stainless Products in plate mill plate, and coil plate. It can be purchased in thicknesses ranging from 0.188" to 1.5". It is available in coil plate lengths of 96", 120", 144", but custom lengths are also available per customer request. This type of stainless steel plate is available in plate in plate mill plate in a variety of mill sizes. Contact Penn Stainless Products directly for more information or custom sizes. Chemical Composition 309, 309S and 309H Stainless Steel Plate The only chemical difference between 309, 309S and 309H stainless steel plate lies in the carbon content. 309 is comprised of at most 0.20% carbon. 309S is made up of no more than 0.080% carbon and 309H stainless steel is made up of between 0.04% and 0.10% carbon. 309, 309S and 309H all contain 60.0% iron, 23.0% chromium and 14.0% nickel. They also contain 2.0% manganese and 1.0% silicon, 0.045% phosphorous and 0.03% sulfur. Mechanical Properties of 309, 309S and 309H Stainless Steel Plate These stainless steel plates have some unique mechanical properties resulting from their chemical composition. The tensile strength of 309, 309S and 309H is at most 85 ksi. The yield strength at 0.2% for this grade stainless steel plate is 30 ksi. The elongation for 309, 309S and 309H is 40%. 309 and 309H plate has a hardness of 217 on the Brinell hardness scale while 309S has a hardness of only 95 on the Brinell scale. Physical Properties The density of 309, 309S and 309H stainless steel plate is 0.285 lbm at 68°F and the thermal conductivity between 32°F and 212°F is 9.0 BTU/ft. The electrical resistivity of these plates is 30.7 x 10<sup>-6</sup> at 68°F. They have a module of elasticity of 28.5 x 10<sup>6</sup>-6 psi. The coefficient of thermal expansion is 8.28 x 10<sup>-6</sup> between 32°F and 212°F. These types of plate have a specific heat of 0.120 Btu/lb between 68°F and 212°F. The melting range of 309, 309S and 309H stainless steel plate is between 2500°F and 2590°F. Specifications 309309S 309H UNS S30900UNS S30908UNS S30909 ASTM A240ASTM A240ASTM A240 ASTM A480ASTM A480ASTM A480 ASME SA240ASME SA240ASME SA240 AMS 5523AMS 5523AMS 5523 Applications and Uses This stainless steel plate has a wide range of uses in many industries. It is commonly used in the production of boiler baffles, furnace components, oven linings and fire box sheets. Because of its chemical composition, 309, 309S and 309H stainless steel plate are frequently used in environments that endure high heat, it can be found in waste treatment facilities specifically in things such as incinerators, rotary kilns and calciners. These grades of stainless steel are also useful in paper mill equipment as well as in petroleum refining, catalytic recovery systems and recuperates. Power generation is another area in which this stainless steel plate is very useful. It can be utilized in pulverized coal burners and tube hangers. It is also utilized on fluidized bed furnaces, mainly in grids, piping, and wind boxes. Thermal processing including annealing covers and boxes, burner, grids doors, fans, lead pans, neutral salt pots, muffles, retorts and walking beams are very commonly made of or contain this stainless steel plate. This type of plate has many applications in which high temperatures need to be endured. This type of plate is also found in oven and stove parts and heavily utilized in the chemical and pharmaceutical industry. Due to its chemical composition, this stainless steel plate has a wide variety of uses in the higher temperature range. Stainless Steel Plate Processing and Fabrication Options FAQs Can 309 be dual certified with 309S or 309H stainless steel plate? Yes, it is possible to dual certify this grade of stainless steel plate. Can 309, 309S and 309H stainless steel plate be polished? Yes, 309, 309S and 309H all have the ability to be polished to a wide range of finishes. What is the heat resistance of 309, 309S and 309H stainless steel plate? 309, 309S and 309H plate has heat corrosion resistance up to 1,900°F.

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