

Grade 2/2H Commercially Pure Titanium (UNS R50400) W. Nr. 3.7035

Sandmeyer Steel Company is offering the "workhorse" commercially pure Titanium material from stock in full plates or custom cut sizes. Sandmeyer Steel Company has added commercially pure Titanium Grade 2/2H (UNS R50400) to North America's largest inventory of Stainless Steel and Nickel Alloy Plate and Plate Products.

Any Way You Want It!

A Sandme er S eel Compan , e ha e o er 100 pieces of Val e-Added Pla e Processing eq ipmen all nder one roof. Yo can p rchase an c s om shape or con g ra ion o req ire o ma imi e pla e ields. We can c pa erns ili ing e-a is abrasi, e a erje or bandsa . We can also offer Mac c rings and discs p

o 124" (3150 mm) OD and can drill or beshee s and baf₄es hro gh 8" (203.2 mm). We can eှen haբe or pla es prod ced in o elded pipe, bing, or src ral shapes. Send sordra ings for nished or near-ne shape pars, or e'd be happ o sell of II-sie pla es. A Sandme er Seel Compan e ork ih hecsomer.

Stock Thicknesses

Grade 2/2H (UNS R50400)

Commerciall P re Ti ani m Pla e and Pla e Prod c s are a ailable along i h o r in, en or of S ainless S eel and Nickel Allo Pla e. We main ain he larges in, en or of special pla e in Nor h America o, er 18 million po nds! Grade 2/2H (UNS R50400)

Commerciall P re Ti ani m is a ailable in hicknesses from .1875" (4.8 mm) hro gh 3.5" (88.9 mm).

Material Certifications

ASTM......B265 ASME

- Bio echnolog and Pharmace icals

Learn More About Sandmeyer Steel Company

Visit our website at www.SandmeyerSteel.com for a complete review of our alloy technical data, stock levels, and Value-Added Plate Processing Capabilities.

Medical



- Oil and Gas Processing

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Ti ani m 2/2H 07/2019

Titanium Grade 2/2H Plate (UNS R50400) Seawater Erosion/Corrosion



Titanium Grade 2/2H Plate (UNS R50400) Aqueous Media Corrosion Rates

Fabrication Data

Ti ani m Grade 2/2H (UNS R50400) pla e can be easil elded, machined, and ho and cold orked b s andard shop fabrica ion prac ices.

Hot Forming

Ho forming opera ions sho ld be performed in he empera re range be een 400 F and 600 F (204 C and 316 C). Care m s be aken o pre, en he forma ion of e cessi, e alpha case hich sho ld be remo, ed af er processing.

Cold Forming

Ti ani m Grade 2/2H (UNS R50400) pla e can be orked b an con, en ional cold-forming me hod a room empera re. Three fac ors make i ani m some ha differen from o her me als.

- Room empera re d c ili ha is less han o her ma erials ma req ire more genero s bend radii and lo er s re ch formabili .
- 2. Mod I s of Elas ici is abo half ha of s eel hich can ca se spring back af er forming.
- 3. Galling endenc is grea er han s ainless s eel hich calls for close a en ion o l brica ion in an forming opera ion in hich i ani m is in con ac i h me al dies or forming eq ipmen.

Welding

Ti ani m Grade 2/2H (UNS R50400) pla e can be joined b a rarie of elding proced res sing i ani m ller me al. Gas ngs en arc elding (GTAW) is he mos common elding process for Ti ani m Grade 2/2H (UNS R50400) pla e, b plasma arc elding, spo elding, elec ron beam, laser beam, resis ance elding, and diff sion elding can all be ili ed. For hicher er process ha is selec ed, iner gas shielding echniq es m s be emplo ed o prer en o gen pick p and embri lemen in he eld area.

Machining

Ti ani m Grade 2/2H (UNS R50400) pla e's machining charac eris ics are similar o hose of a s eni ic s ainless s eels. Lo c ing speeds, hea, feed ra es, and a hea, dosage of c ing ids are recommended. Sharp c ing ools and rigid se ps are s gges ed. Gi, en i ani m's endenc o gall, he feeding sho ld ne, er be s opped hile he ool and piece are in mo, ing con ac. Ti ani m chips are highl comb s ible, and preca ions sho ld be aken o a, oid re ha ards.

The informa ion and da a in his prod c da a shee are acc ra e o he bes of o r kno ledge and belief, b are in ended for informa ional p rposes onl, and ma be re ised a an ime i ho no ice. Applica ions s gges ed for he ma erials are described onl o help readers make heir o ne al a ions and decisions. The are nei her g aran ees nor arran ies of s i abili, e press or implied, for hese or o her applica ions.