

Duplex SS in API, NSF and AWWA Standards

John Grocki

API

- 650 appendix X
- 650 appendix SC
- 653 appendix X
- 653 appendix SC
- 620 appendix X
- 620 appendix SC
- Duplex grades: 2101, 2202, 2304, 2003, 2205, 255, 2507, Z100

API

- API 620 11th edition Addendum 3
Published March 2012
- 12th Edition is in process:
 - will add new lean duplex grades
 - will adjust the impact strength requirements for selected duplex grades

API

- API 650 11th edition Addendum 3
Published August 2011
Errata published October 2011
- 12th Edition is in final process:
 - will add new lean duplex grades
 - will adjust the impact strength requirements for selected duplex grades

API

- API 653 4th edition Addendum 2
Published January 2012
- Addendum 3 has been submitted for
publication in 2013

NSF

- NSF/ANSI Standard 61
for Drinking Water Additives
- Duplex grades: 2101, 2202, 2304,
2003, 2205
- Austenitic grades: 304(L), 316(L)

Annex C

- Annex C has been updated to include additional stainless steel materials used in the manufacture of drinking water pipe, tube, storage tanks, and process equipment.
- Grades included: UNS S32205, S32003, S32101, S32202, S32304, S30400/03 and S31600/03

AWWA

- Pipe and Piping Products Standards
- Installation Manual
- Corrosion Manual
- Water Tanks and Equipment

AWWA – pipe standards

- C-220 – Stainless Steel pipe ½” and Larger
- Includes 2205 and 2304
- Revised to include 2101, 2202, 2003, 201 and 201LN
- Published in 2012

AWWA – pipe standards

- C-226 - Stainless steel Fittings for Waterworks Service, Size ½” Through 72”
- No duplex in present version (2006)
- Being revised to include all NSF duplex grades and 200 series
- Projected for 2013 publication

AWWA – pipe standards

- C-228 - Standard for Stainless Steel Pipe Flanges for Water Service—Sizes 2 In. Through 72 In.
- Includes 2205 and 2304 (2008)
- Being revised to include 2101, 2202, 2003, 201 and 201LN
- Projected for 2013/14 publication

AWWA – pipe standards

- C-2FW – Field Welding of Stainless Steel Water Pipe
- In development and ballot process
- Includes all C-220 grades
- Projected for 2013 publication

AWWA

Stainless Installation Standard

- A committee Document has been prepared
- Published as an AWWA article

Feb 2012

- To be added to the M11 Manual as a separate stainless appendix or chapter
- Projected for 2014

AWWA Corrosion Manual

- A Stainless Section has been prepared
- To be added to the M27 Manual
- Projected for 2013

AWWA – Product Standards

- C-561 – Fabricated Stainless Steel Slide Gates
- To be revised to include all NSF duplex grades
- Projected for 2014

AWWA – Product Standards

- D-XXX - BOLTED STAINLESS STEEL TANKS FOR WATER STORAGE
- Includes all NSF duplex grades
- Document complete awaiting AWWA General Pipe Standard approval
- Projected for 2014
- A welded tank standard will be drafted after completion of the bolted standard (2015?)