



SPECIALTY STEEL INDUSTRY OF NORTH AMERICA

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SSINA STAINLESS STEEL MARKET DEVELOPMENT

Monthly Report – SEPTEMBER 2002
Report Submitted by Brian Leslie

GENERAL

- ◆ Technical HELP LINE: A listing of the questions that we received in September is attached for your information.
- ◆ The Architectural Workshops were all virtually “sold out”. We presented information on stainless steel to over 250 designers and architects in Boston, New York, Philadelphia and Baltimore representing the top firms in these cities. Thanks to NiDI and TMR for providing great presenters (Catherine Houska and Paul Pittsford) and to Ellen Edwards for an excellent job in coordinating these workshops.

MEETINGS

SSINA General and Board Meeting: The projected apparent domestic consumption numbers were presented for 2002 at 16.5 pound per capita, which is up from 15.7 in 2001. Consumption data was also presented by product line. The current activities of the “Stainless Steel Information Center” were discussed including the changes to the web sites, technical questions answered and the new handbook on Salt and Coastal Corrosion. A proposal (from Heintz Pariser) to calculate “net” or (real) consumption from gross apparent consumption in the USA and several other higher consumption countries was reviewed by the Board. The Board requested an additional proposal to make this calculation just for the USA (as a first step) based on available data for SSINA and Georgetown Economic Services. The Board also reviewed the market development expenses vs budget through July, which is under budget at 89%

Market Development Committee: The MDC met on September 19th at North American Stainless in Ghent, KY. A tour of the plant was provided by NAS to the members. A summary of this meeting has been sent out under separate cover, but the key items were: 1) a discussion and approval of the activity plan for market development in 2003, which maintains the activities of this year into next year at the same budget level; 2) a review of the “net” from gross apparent consumption proposal and 3) defined a revised strategy to increase Sponsor

membership in the committee. Details of these meetings are available by contacting Ms Ellen Edwards in the DC office.

INFORMATIONAL PROGRAMS

- The new “ssina.com” web site:

The revised Life Cycle Costing calculator is now available on line

The main technical Handbook “Design Guidelines for the Selection and use of Stainless Steel” is still not “downloadable (due to size and graphical content) but it can be order off the web. We are getting so many technical questions that could be answered by reading this book that we are considering adding a shortened (downloadable) version

- The new Designer Handbook on “Coastal and Salt Corrosion” is complete and on the web site.

EDUCATIONAL PROGRAMS

- **The annual “Architectural Workshops” program is now COMPLETED**
- The ACSA “summer professor seminar” series is scheduled for October 11, in Portland, OR.
- The “Stainless steel Fabrication” seminar will be held at the Fabtech International Conference October 29-31, 2002 at the I-X Center in Cleveland.
- **The Stainless Steel Water Symposium (in conjunction with NiDI) - COMPLETED**
- We continue to service the **1-800 help line**

LIAISON with OTHER ASSOCIATIONS

- We plan to continue to work with NACE to promote their “Cost of Corrosion” study.
- I have accepted a request to be the “kickoff” speaker in the Stainless Steel segment of the ASM “Specialty Metal Conference” to be held October 7-10th, 2002, in Columbus, OH
- We continue to work with AWS on the promotion of programs on the welding of stainless steel as well as a “link” to their web site.

TECHNICAL QUESTIONS TO SSINA “HELP LINE”

SEPTEMBER 2002

- 1) Request info on the sources for SS plates 1m x3m x 5 mm
- 2) Q on the availability on “textured” SS finishes
- 3) Q on the availability of 17 –4pH SS fasteners
- 4) Q on welding SS to A 36 steel pins on a pre-cast panel
- 5) Q on sources of SS kitchen accessories
- 6) Q on whether corten was a SS
- 7) Q on rusting of SS rails on a cruise ship (NiDI)
- 8) Q on the use of 302, 303 &304 in de-ionized and de-mineralized water
- 9) Q on the correct ASTM spec to reference SS gusset plates connecting mild steel to timber structures
- 10) Q whether leaving a SS tanks full of 10% nitric acid and 1% HF over night would corrode the tank
- 11) ASTM would like to reference the SSINA publication “Design Guideline for the Selection and Use of Stainless Steel and requested a current copy plus references
- 12) Q on the shear value for ¾ and 1 in round bolts T304 or T316
- 13) Q on the use of SS for a hot plate on a stove
- 14) Q on the tensile and yield strength of SS sheets
- 15) Q on the selection of SS for use in a swimming pool foundation
- 16) Q on Carpenter specification BIODUR 316LS
- 17) Q on waster water treatment design
- 18) Q on the material to use for a small leaf spring application, subject to battery acid fumes and over 20,000 cycles in fatigue
- 19) Q on corrosion problems with a cable made of 304 attached to a galvanized low carbon steel connector
- 20) Q on the shear strength of SS bolts for a guard rail application
- 21) Q on a standard for gloss on a Bright Annealed finish
- 22) Q on the ACI grade of SS CD4-MCU
- 23) Q on the grade to use to create a sharp fishing “lance” that will be subject to sea water
- 24) What ASTM specifications cover 302, 303 and 304 SS
- 25) What welding spec covers SS dairy piping
- 26) Q on how to polish a 6” SS pipe to be used as part of a sign
- 27) Q on the finishes available on SS
- 28) Q on the properties of 15-5 pH and 17-4 pH
- 29) Rusting problem on SS railing with a #4 satin finish
- 30) What ASTM specification applies to SS threaded rods
- 31) Q on the corrosion rate of SS compared to structural steel
- 32) Q on whether or not there was a standard for glass bead blasting

- 33) Q on the correct SS grade for body piercing
- 34) Q on the correct hardness for a SS spring clip
- 35) Q on alternatives to 416 in a galling application
- 36) Q on an “orange” coloration that appeared on new SS kitchen equipment after the floor had been treated with muriatic acid
- 37) Q on using 304 or 316 plate to stop a high speed bullet
- 38) Q on the use of SS as a pond liner and whether or not one could use copper fittings with the SS
- 39) Q on the “yellowing” of a SS BBQ grill cover at 800 F
- 40) Q on the corrosion resistance difference between a machined 316 and a cast 316
- 41) Looking for a source of 430 strip 19 gauge
- 42) Q on the use of SS for a medical “tub” operating at 300 F
- 43) Q on the use of a “sealer” for SS to prevent fingerprints and other surface marks
- 44) Q on the recommended bending radius for ¼ inch SS plate
- 45) Q on the difference between “aquamet 22” and 304 SS
- 46) Identification as to the type of a SS product
- 47) Identification of the type of SS with 12% Chrome, 5% ferrite (max) and a hardness of 330 Brinell max
- 48) Q on the specifications (ASTM) for SS wide flange beams; and the availability of SS angles
- 49) Q on what SS material to use for a “head set” at 24 gauge
- 50) Q on the corrosion resistance of 440C in salt water & critic acid
- 51) Q on the corrosion resistance of 316 that had been sandblasted and used in chlorinated water
- 52) Q on whether or not 306L was a SS grade
- 53) Q on the corrosion resistance of 316 SS
- 54) Q regarding composition of AISI 3162 compared to 316L
- 55) Q regarding AISI type standard (referred to AISI)
- 56) Request for SS for Residential Applications and Special Finishes
- 57) Q regarding preparing a spec for wastewater application
- 58) Request for SS Fasteners
- 59) Request for Design Guidelines
- 60) Q regarding ss anchor bolts from Arkansas DOT
- 61) Q regarding industry standards for sealers for SS
- 62) Q from consumer: 18/10 and 18/8 - what does it mean
- 63) Q regarding difference between 304 and 316 and 18-8
- 64) Q on heating and piping spec
- 65) Q from consumer on flatware
- 66) Q from consumer on cleaning sub-zero refrig and other appliances in new home
- 67) Q on strength of tubing