

Certified by &

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1-FTSMX 10"-92

CN3604A

1. Manufactured by Perry Products Corporation Mt. Laurel Rd. Hainesport N.J., 08036
(Name and address of manufacturer)
- Manufactured for American Hoechst Corp. 129 Quindnick St. Coventry, R.I., 02816
(Name and address of purchaser)
3. Location of installation Same as above
(Name and address)
4. Type Horizontal Vessel No. B-3887 (Mfg's Serial No.) D-84292 (CRN) 3347 (Nat'l Bd. No.) Year Built 1985
(Horiz. or vert. tank)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE.
The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1983 (Year) and Addenda to S-84 (Date)
and Code Case No. None Special service per UG-120(d) None
Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
None

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or sheets of heat exchangers

(Name of part, item number, mfg's name and identifying stamp)

6. Shell: SA53 GR"B" 307 125 C/S only 10" 7'-11 3/4"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. (ft & in.) Length (overall) (ft & in.)
7. Seams: Seamless 80 Single butt welded 1
Long. (Wld., Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H T Temp (°F)
Time (hr) Girth (Wld., Dbl., Sngl., Lap, Butt) R T (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. ----- (Spec. No., Grade) (b) Matl. ----- (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	---	---	---	---	---	---	---	---	---	---
(b)	---	---	---	---	---	---	---	---	---	---

If removable, bolts used (describe other fastenings) -----

(Matl., Spec. No., Gr., Size, No.)

- J. Type of Jacket ----- Proof Test -----
10. Jacket Closure ----- If bar, give dimensions ----- If bolted, describe or sketch.
(Describe as ogee & weld, bar, etc.)
11. Constr. for max. allow. working press. 90/FV psi at max. temp. 300 °F. Min. temp. (when less than -20° F) ----- °F.
Hydro., pneu., or comb. test press. 135 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SA240 T316 10" 1" 0 Welded
Stationary Matl. (Spec. No., Gr.) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach (Welded, Bolted)
SA105C/S 10" 150# STD. .125 C/S only Retained by tubesheet
Floating Matl. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach
13. Tubes: SA249 T316 1" 18GA. 44 Straight
Matl. (Spec. No., Gr.) O.D. (in.) Nom. Thk. (in. or Gauge) Number Type (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: SA312 T316 109 0 10" 1'-7"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. (ft & in.) Length (ft & in.)
15. Seams: Resistance welded w/o filler metal 70 Double butt welded 2
Long. (Wld., Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H T Temp (°F)
Time (hr) Girth (Wld., Dbl., Sngl., Lap, Butt) R T (Spot, Partial, or Full) No. of Courses
16. Heads: (a) Matl. SA240 T316 (Spec. No., Grade) (b) Matl. SA240 T316 (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	<u>R. End</u>	<u>.165</u>	<u>0</u>	<u>10 3/4</u>	<u>3/4"</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>Concave</u>
(b)	<u>L. End</u>	<u>.165</u>	<u>0</u>	<u>10 3/4</u>	<u>3/4"</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>Concave</u>

If removable, bolts used (describe other fastenings) 24 studs 7/8" Dia. x 5 1/2" Lg. SA193-B7C/S

(Matl., Spec. No., Gr., Size, No.)

17. Max. allow. working press. 90 psi at max. temp. 300 °F. Min. temp. (when less than -20° F) ----- °F.
Hydro., pneu., or comb. test press. 138 psi.

Form U-1 (Back)

Items below to be completed for all vessels where applicable

18. Safety Valve Outlets: Number ----- Size ----- Location Elsewhere in system

19. Nozzles:

Purpose (Inlet, Outlet, Drain)	No	Diam or Size	Type	Matl	Nom Thk	Reinforcement Matl	How Attached
Inlet & Outlet Channel	2	2"	CL:150	SA312 T316	Sch. 40	Inherent	Welded
Inlet & Outlet Channel	2	3/4"	Half Coupling	SA403 T316	3000#	Inherent	Welded
Main Shell	2	2	CL:150	SA53 GR B	Sch. 160	Inherent	Welded
Inlet & Outlet Main Shell	2	3/4"	Half	SA105	3000#	Inherent	Welded

20. Inspection Openings:

Coupling

Manholes No. --- Size --- Location ---
 Handholes No. --- Size --- Location ---
 Threaded No. --- Size --- Location ---

21. Supports: Skirt No Lugs 2 Legs -- Other --- Attached Welded to main shell
 (Yes or no) (No) (No) (Describe) (Where and how)

22. Remarks: Unit not designed for lethal service
Unit designed w 1/8" corrosion allowance for C/S pressure parts only

CERTIFICATE OF COMPLIANCE

We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date 1-22-85 Signed Perry Products Corporation by Douglas W. Chappell
 (Manufacturer) (Representative)

"U" Certificate of Authorization No. 4328 expires December 31, 19 85

CERTIFICATE OF SHOP INSPECTION

Vessel made by Perry Products Corporation at Hainesport, New Jersey, 08036

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Mass. and employed by Lumbermens Mutual Casualty Co.

of Long Grove, IL. have inspected the pressure vessel described in this Manufacturers' Data Report on JAN 22, 1985, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-22-85 Signed Robert A. [Signature] Commissions NR9381 NY2960 MI1360
 (Authorized Inspector) (National Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE FOR FIELD WORK

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date ----- Signed ----- by -----
 (Manufacturer) (Representative)

"U" Certificate of Authorization No. ----- expires -----, 19 -----

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of ----- and employed by -----

of ----- have compared the statements in this Manufacturers' Data Report with the described pressure vessel and state that parts referred to as data items -----, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of ----- psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturers' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date ----- Signed ----- Commissions -----
 (Authorized Inspector) (National Board, State, Province, and No.)