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

R000818

1. Manufactured and certified by PFAUDLER, INC., 1000 WEST AVENUE, ROCHESTER, NEW YORK 14611

(Name and address of Manufacturer)

2. Manufactured for Bayer Corporation, Box: 500, New Martinsville, WV 26155

(Name and address of Purchaser)

3. Location of Installation Bayer Corporation, State Route 2 N, New Martinsville, WV 26155

(Name and address)

4. Type Vertical Unjacketed Vessel, CVC72-1600 J011027 NA R971008 Sht.1 Rev.A 48095 1097
(HORIZ. VERT. OR SPHERE) (Tank separator, jkt. vessel, heat exch., etc.) (Mfg's serial No.) (CRN) (Drawing No.) (Mfg. Ed. No.) (Year built)

5. ASME Code, Section VIII, Div. 1 Edition 1995, Addenda 1995 2043-2 NA
(Edition and Addenda (date)) (Code Case No.) (Special Service per UG-120(d))

Items 6 - 11 Incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell (a) No. of course(s): 1 (b) Overall length (ft & in.): 5' 8"

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No	Diameter, in	Length (ft & in.)	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	72" ID	5' 8"	SA-285 Gr C		9/16"	0"	1	None	70%	1	None	70%	27-8	27-6

7. Heads: (a) SA-285 Gr C Per 27-6 (b) SA-285 Gr C Per 27-6

(Mfg. Spec. No., Grade or Type) H.T. - Time & Temp

(Mfg. Spec. No., Grade or Type) H.T. - Time & Temp

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	Top	.562"	0"	NA	NA	2:1	NA	NA	NA	Yes	Yes	S	None	85%
(b)	Bottom	.562"	0"	NA	4-1/2"	NA	90	NA	NA	Yes	Yes	1	None	70%

If removable, bolts used (describe other fastening) NA

(Mfg. Spec. No., Grade, Size, No.)

8. Type of jacket Item 8 Not Applicable Jacket closure

(Describe as cage & weld, bar, etc.)

If bar, give dimensions NA If bolted, describe or sketch.

9. MAWP 100/FV 15 psi at max. temp. 350 NA ° F Min. design metal temp. -20 ° F at 100 psi
(internal) (external) (internal) (external)

10. Impact test No, exempt from impact testing per UG-20(f).

(Indicate yes or no and the component(s) impact tested)

11. Hydro., ~~press.~~ or ~~corros.~~ test press 100 psi Proof test NA

Items 12 and 13 to be completed for tube sections.

12. Tubesheet Items 12-18 NA

Stationary (Mfg. Spec. No.)

Dis. in (subject to press.)

Nom. thk. in.

Corr. Allow. in.

Attachment (welded or bolted)

Floating (Mfg. Spec. No.)

Dis. in

Nom. thk. in.

Corr. Allow. in.

Attachment

13. Tubes

Mfg. Spec. No., Grade or Type

O. D., in.

Nom. thk. in. or gauge

Number

Type (Straight or U)

Items 14 - 18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s): NA (b) Overall length (ft & in.): NA

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No	Diameter, in	Length (ft & in.)	Spec./Grade or Type		Nom	Corr	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time

15. Heads (a) NA (b) NA

(Mfg. Spec. No., Grade or Type) H.T. - Time & Temp

(Mfg. Spec. No., Grade or Type) H.T. - Time & Temp

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min	Corr	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)														
(b)														

If removable, bolts used (describe other fastening)

(Mfg. Spec. No., Grade, Size, No.)

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16 MAWP _____ psi at max. temp. _____ ° F Min. design metal temp. _____ ° F at _____ psi.
 (internal) (external) (internal) (external)

17 Impact test _____

(Indicate yes or no and the component(s) impact tested)

18 Hydro., pneu., or comb. test pressure _____

Proof test _____

19. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Manway	1	18"	CLAMP	SA-836	SA-836	9/16"	0"	None	Note 1	Integral	NA
Inlet	4	4"	LAPJT	SA-836	SA-181 Cl 60	3/8"	0"	None	Note 1	Loose	NA
Inlet	6	3"	LAPJT	SA-836	SA-181 Cl 60	11/32"	0"	None	Note 1	Loose	NA
Outlet	1	4"	LAPJT	SA-836	SA-181 Cl 60	3/8"	0"	None	Note 1	Loose	NA

20. Supports: Skirt _____ No _____ Lugs _____ 0 _____ Legs _____ 4 _____ Others _____ NA _____ Attached _____ Welded to vessel shell _____
 (Yes or No) (No) (No) (Describe) (Where and How)

21 Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
 (List the name of part, item number, mfg's. name and identifying number)

77.4"ID x 5.25"ID x 36.08" O.A.H. Cone, RK Fabricating, Inc., Mfg's Serial #: 6248, U..

22 Remarks: Constructed in Conformance With Appendix 27, Alternative Requirements for Glass-Lined Vessels. Vessel hydrotested in the vertical position. Pressure relief per UG-125 to be provided by user. Note 1: Category B weld to swaged opening (e=70%).

Mfg's serial No.: J011027. Customer Order No.: C-07-J-00078

CERTIFICATE OF SHOP COMPLIANCE

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.

U Certificate of Authorization No. _____ 408 Expires _____ December 31, 19 97
 Date _____ 2/28/97 Name _____ PFAUDLER, INC. Signed _____ Thomas B. Main
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ NY and employed by _____ Hartford Steam Boiler Inspection and Insurance Company of _____ Hartford, Connecticut have inspected the pressure vessel described in this Manufacturer's Data Report on _____ 2/28, 19 97, 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 this Manufacturer's 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 _____ 2/28/97 Signed _____ [Signature] Commissions N.B.# _____ 10496 A
 (Authorized Inspector) (Natl Board Incl. endorsement, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1.

U Certificate of Authorization No. _____ Expires _____, 19 _____
 Date _____ Name _____ PFAUDLER, INC. Signed _____
 (Assembler) (Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's 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 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 Manufacturer's 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) (Natl Board Incl. endorsement, State, Province and No.)

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FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by RK FABRICATING, INC., 259 TOWNSHIP AVE., CINCINNATI, OHIO 45216
(Name and address of Manufacturer)

2. Manufactured for TRINITY INDUSTRIES - 11861 MOSTELLER ROAD, CINCINNATI, OHIO 45241
(Name and address of Purchaser)

3. Location of installation NOT KNOWN
(Name and address)

4. Type: *77.4" ID X 5.25" ID X 36.08" O.A.H. CONE 6248
(Description of vessel part (shell, two piece head, tube bundle)) (Mfg's serial No.) (Year built)

6248-1 RK FABRICATING, INC. 1996
(Mat'l. Bld. No.) (Drawing No.) (Drawing prepared by) (Year built)

5. ASME Code, Section VIII, Div. 1 1995 - 1995
(Edition and Addenda (date)) Code Case No. Special Service per UG 12/41

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

6. Shell (a) No. of course(s): (b) Overall length, ft & in.:

Course(s)			Material	Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length, ft & in.	Spec. (Grade or Type)	Nom.	Corr.	Type	Full. Spec. Name	Eff.	Type	Full. Spec. Name	Eff.	Temp.	Temp.
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

7. Heads: (a) SA-285-C (b)
(Mat'l Spec. No., Grade or Type) H.T. - Temp. & Temp. (Mat'l Spec. No., Grade or Type) H.T. - Temp. & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Sew to Pressure		Category A	
		Min.	Corr.	Crown	Knuckle					Corros.	Concave	Type	Full. Spec. Name
(a)	-	.600"	-	-	-	-	90°	-	-	-	-	-	-
(b)	-	-	-	-	-	-	-	-	-	-	-	-	-

If removable, bolts used (describe other fastening)
(Mat'l Spec. No., Grade, Size, No.)

8. Type of jacket Jacket closure
(Describe all eyes, & weld, bar, etc.)

If bar, give dimensions If bolted, describe or sketch.

9. MAWP psi at max. temp. °F. Min. design metal temp. °F at psi
(internal) (external) (internal) (external)

10. Impact test
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. Proof test

Items 12 and 13 to be completed for tube sections.

12. Tubesheet:
Stationary (Mat'l. Spec. No.) Dia., in. (subject to press.) From dia., in. Corr. Allow., in. Attachment (welded or bolted)

Flanging (Mat'l. Spec. No.) Dia., in. From dia., in. Corr. Allow., in. Attachment

13. Tubes:
Mat'l Spec. No., Grade or Type O.D., in. Nom. Thk., in. or gauge Number Type (straight or U)

Items 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s) (b) Overall length, ft & in.:

Course(s)			Material	Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length, ft & in.	Spec./Grade or Type	Nom.	Corr.	Type	Full. Spec. Name	Eff.	Type	Full. Spec. Name	Eff.	Temp.	Temp.
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