

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

B-877

page 1 of 3

1. Manufactured and certified by Letco Incorporated, 851 North Belcrest, Springfield, Mo 65802
(Name and address of Manufacturer)

2. Manufactured for BASF Corporation, Route 4, Box 327, Beaumont, TX 77705
(Name and address of Purchaser)

3. Location of installation BASF Corporation, West Port Arthur Road, Beaumont, TX 77705
(Name and address)

4. Type: Vertical Vessel
(Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exch., etc.)

ASME Code, Section VIII, Div. 1 1995, A95 1104 1997
(CRN) (Drawing No.) (Nat'l. Bd. No.) (Year Built)

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): One(1) (b) Overall length (ft & in.): 3' - 9"

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	96" I.D.	3' - 9"	SA-240 316L		5/16"	0.0"	1	Full	100%	1	Full	100%		

7. Heads: (a) SA-240 316L, No H.T. (b) SA-240 316L, No H.T.
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (Mat'l 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
(a)	Top	0.198"	0.0"	90"	6"	---	---	---	---	Yes	Yes	1	Full
(b)	Bottom	0.211"	0.0"	90"	6"	---	---	---	---	Yes	Yes	1	Full

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

8. Type of jacket N.A. Jacket closure ---
(Describe as open & weld, bar, etc.)

If bar, give dimensions ---
9. MAWP 60 15 psi at max. temp. 370 370 °F Min. design metal temp. -20 °F at 60 psi.
(internal) (external)

10. Impact test No, exempt per UHA-51(d)(1)(a) and UHA-51(e)(2)(a)
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. Hydro. 102 psig Proof test none

Items 12 and 13 to be completed for tube sections.

12. Tubesheet: N.A.
Stationary (Mat'l Spec. No.) --- Dia., in. (subject to press.) --- Nom. thk. in. --- Corr. Allow. in. --- Attachment (welded or bolted) ---
Floating (Mat'l Spec. No.) --- Dia., in. --- Nom. thk. in. --- Corr. Allow. in. --- Attachment ---
Mat'l Spec. No., Grade or Type --- O.D., in. --- Nom. thk. in. or gauge --- Number --- Type (Straight or U) ---

13. Tubes: N.A.
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): N.A. (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, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time

15. Heads: (a) N.A. (b) N.A.
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (Mat'l 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
(a)	---												
(b)	---												

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

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Letco Incorporated, 851 North Belcrest, Springfield, Mo 65802
(Name and address of Manufacturer)

2. Manufactured for BASF Corporation, Route 4, Box 327, Beaumont, TX 77705
(Name and address of Purchaser)

3. Location of installation BASF Corporation, West Port Arthur Road, Beaumont, TX 77705
(Name and address)

4. Type: Vertical Vessel
(Horiz., vert., or sphere) (Tank, separator, etc., vessel, heat exch., etc.)

--- W-1769-1 & 2-D, Rev. C 1104 3113-06
(CRN) (Drawing No.) (Nat'l. Bd. No.) (Mfg's serial No.)

--- 1997
(Year Built)

Data Report Item Number

19. Nozzles, inspection, and safety valve openings:

Remarks

See page 2 of 3 for symbol definitions.

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	24"	Bolted	C	C	1/4"	0.0"	SA-240 316L	L8	L23	Top Head
Level Switch	1	2"	CL-150	A	B	Sch. 40S	0.0"	---	L3	L18	---
Recirculation	1	3"	CL-150	A	B	Sch. 40S	0.0"	---	L3	L18	---
Level Gauge	2	2"	CL-150	A	B	Sch. 40S	0.0"	---	L3	L18	---
Spare	1	2"	CL-150	A	B	Sch. 40S	0.0"	---	L3	L18	---
Vent	1	4"	CL-150	A	B	Sch. 40S	0.0"	---	L3	L18	---
---								SA-240 316L	L8	L18	---
---											---
---											---
---											---
---											---
---											---
---											---
---											---
---											---

Certificate of Authorization: Type "U" No. 14940 Expires December 07, 19 99

Date 11/14/97 Name Letco Incorporated Signed Ray White
(Manufacturer) (Representative)

Date 11-14-97 Name E. J. Purcell Commission Nat'l Bd. # 7376 "A"
(Authorized Inspector) (Nat'l Board Inc. endorsement, State, Province and No.)

206