

PO# 862872

Item# H-804A(R)

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-SHOP

1. Manufactured and certified by Plant Maintenance Service Corporation Plant A, 3690 FITE ROAD, MEMPHIS, TENNESSEE 38127

(Name and address of Manufacturer)

Manufactured for BASF CORPORATION, BEAUMONT, TX

(Name and address of Purchaser)

3. Location of Installation BASF CORPORATION, BEAUMONT, TX

(Name and address)

4. Type: Vertical VENT CHILLER AD-343 AD-343D 627 1997
 (Horiz., vert., or sphere) (Tank separator, jkt. vessel, heat exh., etc.) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. ASME Code, Section VIII, Div. 1 Edition 1995, Addenda 1996

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	6 5/8OD	5-8	SA-106 Gr B		.280"	1/8"	S	None	85%	CJ	None	NA	NA	NA

7. Heads: (a)

(b)

(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	Eff.
(a)														
(b)														

If removable, bolts used (describe other fastening)

8. Type of jacket

Jacket closure

(Mat'l Spec. No., Grade, Size, No.)

If bar, give dimensions

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

If bolted, describe or sketch.

WP 100 FV psi at max. temp. 450 450 ° F Min. design metal temp. -20 ° F at FV/100 psi
 (internal) (external) (internal) (external)

10. Impact test NO, PER UG-20(f), UHA-51(D) AND UCS-66(c)

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

11. Hydro., ~~hydro.~~, or ~~burst~~ test press

150

Proof test

Items 12 and 13 to be completed for tube sections.

12. Tubesheet:

SA240T316L

6

1 1/2

0"

WELDED

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

13. Tubes:

SA249T316L

1 1/4

.083IN

9

STRAIGHT

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):

2

(b) Overall length (ft & in.):

0-10 1/21-4 3/8

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	6 5/8OD	0-5	SA312T316L		.109"	0"	E	None	85%	1	Spot	85%	NA	NA
1	6 5/8OD	0-5 1/2	SA312T316L		.109"	0"	E	None	85%	1	Spot	85%	NA	NA

15. Heads: (a)

(b)

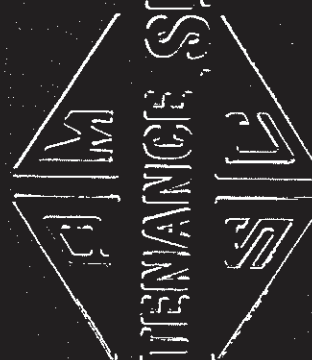
SA403WP316L

(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	Eff.
(a) Top		1.0"	0"	USED	A	6"	150°	BLDFLG	11"	FLAT	FLAT	S	None	100%
(b) Bottom		.25"	0"	USED	A	6"	SCH 5	WELD	CAP	YES	YES	S	None	85%

If removable, bolts used (describe other fastening)

(24)3/4" DIAM. SA193B8 STUDS WITH (48) SA194-8 NUTS

(Mat'l Spec. No., Grade, Size, No.)



PLANT MAINTENANCE SERVICE CORP.
MEMPHIS TENNESSEE

NAT'L BD. 627

{U}
W
RT...3

CERTIFIED BY:

PLANT MAINTENANCE SERVICE CORP.

M.A.W.P.

TUBE SIDE	FV&100	PSI AT	350	OF
SHELL SIDE	FV&100	PSI AT	450	OF

M.D.M.T.

TUBE SIDE	20	OF AT	FV&100	PSI
SHELL SIDE	20	OF AT	FV&100	PSI

SERIAL NO. AD-343
YEAR BUILT 1997