

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

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1. Manufactured and certified by LFC LOCHEM BV HANZEWEG 21 C LOCHEM 7241 CS NETHERLANDS  
 (Name and address of Manufacturer)

2. Manufactured for LFC NORTH AMERICA  
 (Name and address of Purchaser)

3. Location of installation CORN PRODUCTS INT. STOCKTON, CALIFORNIA USA  
 (Name and address)

4. Type: Horizontal Filtertank 98005634 A RJB00083 rev 2 Nr 09 1999  
 (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 98  
 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): 2 (two) (b) Overall length (ft & in.): 19'- 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	4'-7.12"	7'-3.8"	SA790 S31803		0.236"	0	1	SPOT	85	1	SPOT	85		
2	5'-8.90"	7'-3.8"	SA790 S31803		0.236"	0	1	SPOT	85	1	SPOT	85		

7. Heads: (a) S31803 (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)	Top	0.354"	0	4'-7.2"							Y	S		1
(b)	Rear	0.354"	0	4'-7.2"	5.5"						Y	S		1

If removable, bolts used (describe other fastening) Top head Fasteners: bolts Ø 0.93" SA 316L  
 (Mat'l Spec. No., Grade, size, No.)

8. Type of jacket \_\_\_\_\_ Jacket closure \_\_\_\_\_  
 (Describe as ogee & weld, bar, etc.)

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

9. MAWP 100 \_\_\_\_\_ psi at max. temp. 212 212 °F Min. design metal temp. 180 °F at 100 psi.

10. Impact test Yes, Shellflange only remaining items excemped per UHA 51 (d)  
 (internal) (external) (internal) (external)

11. Hydro., pneu., or comb. test press. 165 PSI (Indicate yes or no and the component(s) impact tested)  
 Proof test \_\_\_\_\_

items 12 and 13 to be completed for tube sections.

12. Tubesheet: \_\_\_\_\_  
 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: \_\_\_\_\_  
 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, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time

15. 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) \_\_\_\_\_  
 (Mat'l Spec. No., Grade, Size, No.)

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 press. \_\_\_\_\_ 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	

20. Supports: Skirt \_\_\_\_\_ Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Others 4 supports Attached welded to 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)

22. Remarks: UG-125 is user responsibility  
Vessel for non-combustive service only. Shell consist of 2 semi conical items, half apex angle is 15°  
Vessel spot radiography applied to satisfy UW 11 (b) and UW 11 (a) (5) (b)  
Loose tophead is identify with manufactures serial Nr and QC Stamp



**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. 31.038 Expires 24 May, 19 2002

Date 22-12-99 Name LFC LOCHEM B.V Signed \_\_\_\_\_  
 (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 \_\_\_\_\_ and employed by LR Insurance Inc. of Delaware have inspected the pressure vessel described in this Manufacturer's Data Report on 22 Dec., 19 99, 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 22 Dec. 99 Signed [Signature] Commissions NB10492B Pennsylvania 2503  
 (Authorized Inspector) (Nat'l 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 \_\_\_\_\_ 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) (Nat'l Board incl. endorsement, State, Province and No.)

12/22/99

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Form U-4

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

LFC LOCHEM BV HANZEWEG 21 C LOCHEM 7241 CS NETHERLANDS

1. Manufactured and certified by LFC NORTH AMERICA  
(Name and address of Manufacturer)

2. Manufactured for \_\_\_\_\_  
(Name and address of Purchaser)

3. Location of installation CORN PRODUCT INT STOCKTON, CALIFORNIA, USA  
(Name and address)

4. Type: Horizontal Filtertank 99005634 A  
(Horiz., vert., or sphere) (Tank, separator, heat exch., etc.) (Mfg's. serial No.)

RJB00083 Rev 2 Nr 09 Year 1999  
(Drawing No.) (Part. Bd. No.) (Year built)

ASME CODE SECTION VIII DIV 1 Edition 98

Data Report  
Item Number

Remarks

	Part			Material		Nozzle thicken		How Attached	
	No	Size	Flange type	nozzle	flange	Norm	corr	nozzle	
N1 Inlet	2	4"	Slip On / RF	S31803	F-51	0.23"	0	16-1-C	TP 1
N2 Outlet	1	6"	Slip On / RF	S31803	F-51	0.28"	0	16-1-C	TP 1
N3 Drain	1	10"	Slip On / RF	S31803	F-51	0.37"	0	16-1-C	TP 1
N4 Heel drain	1	4"	Slip On / RF	S31803	F-51	0.23"	0	16-1-C	TP 1
N5 Sluice Inlet	2	3"	Slip On / RF	S31803	F-51	0.21"	0	16-1-C	TP 1
N6 Bot sluice	2	2"	Slip On / RF	S31803	F-51	0.15"	0	16-1-C	TP 1
N7 Air/N2	1	3"	Slip On / RF	S31803	F-51	0.21"	0	16-1-C	TP 1
N8 Vent	1	2"	Slip On / RF	S31803	F-51	0.15"	0	16-1-C	TP 1
N9 Relief valv	1	2"	Slip On / RF	S31803	F-51	0.15"	0	16-1-C	TP 1
N10 Manom	1	2"	Slip On / RF	S31803	F-51	0.15"	0	16-1-C	TP 1
N11 Glass	1	6"	Slip On / RF	S31803	F-51	0.28"	0	16-1-C	TP 1
N12 Flush	1	1/4"	Threaded						

Certificate of Authorization: Type U-STAMP No. 31-038 Expires 24 MAY 2002

Date 22-12-99 Name LFC LOCHEM BV  
(Manufacturer)

Signed [Signature]  
(Representative)

Date 22 Dec. 1999 Name [Signature]  
(Authorized Inspector)

Commission MB 10492B Pennsylvania 2503  
(Must Bead Incl. endorsement, State, Province and No.)

[Signature]  
TE Berman

12/22/99