

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Form U1-A

1. Manufactured and certified by AstroCosmos Metallurgical-Groupe Carbone Lorraine 3225 W. Old Lincoln Way, Wooster, Ohio 44691
(Name and address of manufacturer)

2. Manufactured for ROCHE VITAMINS INC., 205 ROCHE DRIVE, BELVIDERE, NJ 0782-1113
(Name and address of purchaser)

3. Location of installation ROCHE VITAMINS INC., 205 ROCHE DRIVE, BELVIDERE, NJ 0782-1113
(Name and address)

4. Type HORIZ. TANK 74636 --- 74636-D-01 R. 2 1952 2001
(Horiz. or vert. tank) (Mfg'r's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year Built)

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 1998
to 2000 Year

6. Shell: SB-265-2 5/16" 0" 5'-5 3/8" 10'-9"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: WLD, DBL, BUTT FULL 100 --- --- WLD, DBL, BUTT FULL 1
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F.) Time (hr.) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

8. Heads: (a) Matl. SB-265-2 (b) Matl. SB-265-2
(Spec. No., Grade) (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)	END	5/16"	0"	66"	4"	---	---	---	---	CONCAVE
(b)	END	5/16"	0"	66"	4"	---	---	---	---	CONCAVE

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

9. MAWP FV & 14.5 psi at max. temp. 250 °F
(Matl., Spec. No., Gr., Size, No.)

Min. design metal temp. -20 °F at 14.5 psi. Hydro., pneu., or comb. test pressure HYDRO @ 19 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Matl	Nom. Thk	Reinforcement Matl	How Attached	Location
MANWAY	3	24"	150-LJ	SB-265-2	3/16"	SB-265-2	WLD	SHELL/HEAD
INLET	1	12"	150-LJ	SB-265-2	3/16"	INHERENT	WLD	SHELL
SIGHTGLASS	3	8"	150-PAD	SB-265-2	2 15/16"	INHERENT	WLD	SHELL
RUPTURE DISC	1	6"	150-LJ	SB-337-2	.280"	INHERENT	WLD	SHELL
SPARE	1	4"	150-LJ	SB-337-2	.237"	INHERENT	WLD	SHELL
SERVICE	12	3"	150-LJ	SB-337-2	.216"	INHERENT	WLD	SHELL
SERVICE	5	2"	150-LJ	SB-337-2	.154"	INHERENT	WLD	SHELL
SIGHT GLASS	1	12" X 36"	SPECIAL	SB-265-2	1/2"	SB-265-2	WLD	SHELL

11. Supports: Skirt NO Lugs 4 Legs --- Other --- Attached SHELL, WLD
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: -----
(Name of part, item number, Mfg'r's. name and identifying stamp)

UNIT IS EXEMPT FROM IMPACT TESTING PER UNF-65

SAFETY VALVE PROVIDED IN LINE BY USER

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. 10,884
expires DEC. 4, 2003

Date 3-24-01 Co. Name AstroCosmos Metallurgical-Groupe Carbone Lorraine Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by AstroCosmos Metallurgical-Groupe Carbone Lorraine at Wooster, Ohio. 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 Ohio and employed by The Hartford Steam Boiler Inspection and Insurance Company have inspected the component described in this Manufacturer's Data Report on 3-24-01, 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 3-24-01 Signed [Signature] Commissions NB 9918 A OH
(Authorized Inspector) (Nat'l. Board (Incl. endorsements, State, Prov. and No.))