12½ Ton N2O W/D.T.

D.P. No. 67072
Cardox No. L-2038-N

NB

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by STANSTEEL CORP, DECATUR PLANT, DECATUR, ILLINOIS (Name and address of Manufacturer)

2. Manufactured for CARDOX, DIVISION OF CHEMETRON CORPORATION CHICAGO, ILLINOIS (Name and address of Purchaser)

3. Type HORIZ (Horiz. or Vert.) Vessel No. (44052) (Mfrs. Serial) ( ) (State & State No.) Natl. Bd. No. 44093 Yr. Built 1971

4. SHELL: Matl. SA-515-70 (Kind and Spec. No.) T.S. 70,000 (Fig. or F.B. & Spec. Min. T.S.) Nom. Thk. 1/16 in. Corr. Allow 0 in. Diam. 4 Ft. 6 In. Length 25 Ft. 1 In.

5. SEAMS: Long Weld Dbl. (Welded, Dbl., Single, Lap, Butt) H.T. No (Yes or No)[1] R.T. Spot (Spot or Complete) Sectioned No (Yes or No) Efficiency 85 %

Girth Weld Dbl. H.T. No R.T. Spot Sectioned No No. of Courses 4

If riveted or brazed describe seams fully under remarks.

6. HEADS:

	(a) Material	T.S.	(b) Material	T.S.
	SA-515-70	70,000		

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Ends	9/16 Min.			2:1				Concave
(b)								

If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)

7. Constructed for max. allowable working press.[2] 363 psi at max. temp. 650 °F. Min. temp. (when less than −20°) °F. Hydrostatic / ~~Pneumatic~~ / ~~Combination~~ Test Press 550 psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number Size Location Furn & Applied in Field

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Inlet	1	6"	Nozz.	SA-53	.432		Welded
Outlet & Vent	(2)	1" (2) 1½"	X-Hvy. IPS Pipe	SA-53			Welded
Coil Outlet	(2)	1½"	X-Hvy. IPS Pipe	SA-53			Welded

10. INSPECTION OPENINGS: Manholes, No. 1 Size 15" Location Head
Handholes, No. Size Location
Threaded, No. Size Location

11. SUPPORTS: Skirt No (Yes or No) Lugs 6 (Number) Legs (Number) Other (Describe) Attached Shell Welded (Where & How)

12. REMARKS:

12½ Ton N2O Storage Tank.

Built to 1968 A.S.M.E. Code, Section VIII, Division 1

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents.
[1] If postweld heat-treated.
[2] List other internal or external pressures with coincident temperature when applicable.

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.

Date 8-6 1971 Signed STANSTEEL CORP DECATUR PLANT (Manufacturer) By James E Strode

Certificate of Authorization Expires 12/31/72

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY STANSTEEL CORP, DECATUR PLANT at DECATUR ILLINOIS

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province ILLINOIS and employed by THE FIDELITY AND CASUALTY COMPANY of NEW YORK have inspected the pressure vessel described in this manufacturer's data report on August 3 71, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

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 August 3 1971

[illegible] Inspector's Signature

Commissions NB # 3673, PA # 1498 and OHIO
Nat'l Board, State, or Province and No.