

FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules

1. Manufactured by AIR PRODUCTS & CHEMICALS, INC., WILKES-BARRE, PENNA.
(Name and address of Manufacturer)
2. Manufactured for I & M DIVISION, AIR PRODUCTS & CHEMICALS, INC., TREXLERTOWN, PENNA.
(Name and address of Purchaser)
3. Type Vert. Kind Tank Vessel No. (NB 1946) (Ohio Sp. 2468) Nat'l Bd. No. NB 1946 Yr. Built 1964
(Horiz. or Vert.) (Tank, Jacketed, Heat Exch.) (Mfrs. Serial) (State & State No.)

Items 4-9 incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of Heat Exchangers

4. SHELL: Material 9% Ni, Code Case 1308 SA353-B T.S. 100,000 Nominal Thickness .455" Corrosion Allowance 0 in. Diam. 6 ft. 0 in. Length 10 ft. 0 in.
(Kind and Spec. No.) (Fig. or F. B. & Lowest T. S.) (Ohio 90%)
5. SEAMS: Long Dbl. Welded S.R. No X.R. Complete Sectioned No Efficiency NB 100%
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

If riveted describe seams fully on reverse side of form

6. HEADS: (a) Material SA353-B T.S. 100,000 (b) Material SA353-B T.S. 100,000
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex angle Hemispherical Radius Flat Diameter Side to Pressure
(Top, bottom, ends) (Kind & Spec. No.) (Fig. or F. B. & Lowest T. S.) (Yes or No) (Spot or Complete) (Yes or No) (Yes or No) (Yes or No) (Yes or No) (Convex or Concave)

If removable, bolts used _____ Other fastening _____ (Describe or Attach Sketch)

7. STAYBOLTS: Material _____ If hollow _____ Attachment _____ Pitch _____ X _____ Diam. _____
(Material) (Size of Hole) (Threaded, Welded) (Horiz.) (Vert.) (Nominal)

8. JACKET CLOSURE: _____ (Describe as gage & weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)
9. Constructed for { Int. Ohio 253 PSI @ 0 PSIA external press. } pressure of NB 253 psi. Max. Temp. +100 °F. Subzero -320 °F. Hydrostatic Test 336 psi. Pneumatic

Items 10 and 11 to be completed for tube sections

10. TUBE SHEETS: Stationary. Material _____ Diam. _____ in. Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to Pressure) (Welded, Bolted)
Floating. Material _____ Diam. _____ in. Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to Pressure) (Welded, Bolted)
11. TUBES: Material _____ O.D. _____ in. Thickness _____ inches or gage. Number _____ Type _____
(Kind & Spec. No.) (Straight or U)

Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

12. SHELL: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Diam. _____ ft. in. Length _____ ft. in.
(Kind and Spec. No.) (Fig. or F. B. & Lowest T. S.)

13. SEAMS: Long _____ S.R. _____ X.R. _____ Sectioned _____ Efficiency _____ %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
Girth _____ S.R. _____ X.R. _____ Sectioned _____ No. of courses _____

If riveted describe seams fully on reverse side of form

14. HEADS (a) Material _____ T.S. _____ (b) Material _____ T.S. _____ (c) Material _____ T.S. _____
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex angle Hemispherical Radius Flat Diameter Side to Pressure
(Top, bottom, ends) (Kind & Spec. No.) (Fig. or F. B. & Lowest T. S.) (Yes or No) (Spot or Complete) (Yes or No) (Yes or No) (Yes or No) (Yes or No) (Convex or Concave)
(b) Channel _____
(c) Floating _____

If removable, bolts used (a) _____ (b) _____
(Material, Spec. No., T.S., Size, Number)

Other fastening _____ (Describe or Attach Sketch)

15. Constructed for { Int. _____ } pressure of _____ psi. Max. Temp. _____ °F. Subzero _____ °F. Hydrostatic Test _____ psi.

Items below to be completed for all Vessels where applicable

16. SAFETY VALVE OUTLETS: Number _____ Size _____ Location _____

17. NOZZLES

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Trycock & Gage Lines	3	9/16" OD	Nozzle	SA353-B	.172"	None	Welded
Vent Line	1	1 7/8" OD	Nozzle	SA353-B	.240"	"	"
Top & Bottom Fill	2	1 5/8" OD	Nozzle	SA353-B	.240"	"	"
Liq. Drain	1	1 5/16" OD	Nozzle	SA353-B	.177"	"	"

18. INSPECTION OPENINGS: Manholes, No _____ Handholes, No _____ Threaded, No _____
19. SUPPORTS: Skirt _____ No _____ Legs _____ 2 _____ Other _____ (3) Support Bands Head Welded (6) Rein. Pads Shell Welded

20. REMARKS: Proj. 66-1000-1103, 2400 Gal. Storage Tank. Contents: Liquid Oxygen, Nitrogen. Impact Tested.

AIR PRODUCTS & CHEMICALS, INC., WILKES-BARRE, PENNSA.

AIR PRODUCTS & CHEMICALS, INC., TRAILBLAZER, PENNSA.

Built in accordance with Sec. VIII, 1962 ASME Code & Code Case 1308.

1964

NOV 1964

NOV 1964

NOV 1964

0.01	0.0	0	100%	100%	100%
0.01	0.0	0	100%	100%	100%
0.01	0.0	0	100%	100%	100%

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this unfired pressure vessel conform to the ASME Code for Unfired Pressure Vessels

Date 1/31/1964 Signed Air Products & Chemicals, Inc. By [Signature] (Manufacturer)

Certificate of Authorization Expires December 31, 1964

CERTIFICATE OF SHOP INSPECTION

Inspection Agency's Serial No. HB 1946

VESEL MADE BY Air Products & Chemicals, Inc. at Wilkes-Barre, Penna.

the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF Penna. and employed by The Commercial Union Ins., Co. of New York

inspected internally and externally, the vessel described in this report on 1964 and certify that the statements made in this report are correct corresponding with mill test reports of materials furnished by the builders, and measurements made of the vessel and that this vessel is constructed in accordance with the ASME Code for Unfired Pressure Vessels

Date 1-31-1964

[Signature] Inspector's Signature

HB 4886 Commissions State or Nat'l Bd. & Number

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF and employed by of

have compared the statements in this manufacturer's data report with the completed vessel, and certify that parts referred to as data items were completed in the field in accordance with the requirements of the ASME Code for Unfired Pressure Vessels. The completed vessel was inspected and subjected to a hydrostatic test of psi.

Date 1964

[Signature] Inspector's Signature

Commissions State or Nat'l Bd. & Number

before	one	none	one	one	one	one	one
"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"