

AKER KVAERNER

MECHANICAL DATA SHEET API 650 STORAGE TANK

PREP. BY	JT	JT	RPH
CHKD. BY		RH	RLG
APPROVED		RH	RLG
DATE	5/8/2006	6/8/2006	1-15-15
ISSUE	A	B	C

CLIENT: Lucite	PROJECT No.: P0501500	ITEM No. 1165-0155-05 (T-201)
LOCATION: Beaumont	PID No.:	DATA SHEET No.: MDS-1165-0155-05
PLANT: HCN / AN	PROCESS AREA: Ammonia Recycle	
SERVICE: Caustic Solution	EQUIPMENT NAME: Phosphate Cooler Wash Tank	

PROCESS DATA			
1			
2	FLUID HANDLED		Caustic Solution (10% NaOH)
3	FLAMMABLE / EXPLOSIVE		No/No
4	CORROSIVE / EROSIIVE		Yes/No
5	TOXIC / LETHAL		Yes/No
6	DENSITY	lb/ft3	69.3
7	OPERATING PRESSURE	NORM/MAX psig	Atmospheric
8	OPERATING TEMPERATURE	NORM/MAX °C (°F)	15 / 75
9	CAPACITY (GROSS)	gal.	650
10	DESIGN PRESSURE	MAX/MIN psig	Atmospheric
11	DESIGN TEMPERATURE	MAX/MIN °C (°F)	100 / -7
12	PUMPING RATES	IN/OUT m3/hr	
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CONSTRUCTION			
16	DESIGN CODE	API 650 latest edition	
17	TANK SIZE: ft-in	DIAMETER: 5'-0"	HEIGHT: 5'-0"
18			
19		SHELL	ROOF
20	MATERIAL OF CONSTRUCTION	A201 Type 304L	A201 Type 304L
21	DESIGN OR TYPE	per APPENDIX 8	Self Supported Cone
22	MIN. REQUIRED THICKNESS	0.25	0.25
23	CORROSION ALLOWANCE	none	none
24	AS FURNISHED THICKNESS	*	*
25	MILL TESTING	Note 3	
26	LEAK TESTING	N/A (use Radiography Test)	
27	STAIRWAY REQUIREMENT / STYLE	none	
28	WALKWAY REQUIREMENT / DIMENSIONS	none	
29	DRAW OFF SUMP REQUIREMENT	none	
30	INTERNAL PIPING REQUIREMENT	none	
31	ROOF DRAIN REQUIREMENT	none	
32	INTERNAL SURFACE PREPARATION	per G1C	
33	EXTERNAL COATING	One (1) coat of Amine Epoxy per SZ3075	
34	INSULATION THICKNESS	by others	
35	ROOF DESIGN INFORMATION	*	
36	TANK BOTTOM COATING	*	
37	NDE REQUIREMENT / TYPE	Spot Radiography	
38	STRUCTURE REQUIREMENT	*	
39	FOUNDATION TYPE	CONCRETE PAD (by Others)	
40	WIND VELOCITY/PRESSURE	125 mph (per ASCE 7-2002) mph	EARTH QUAKE ZONE 0 (per ASCE 7-2002)
41		SHIPPING (EMPTY)	TEST OPERATING
42	EQUIPMENT WEIGHT	lbs	*

NOTES:			
44	1. *** designates information to be provided by Manufacturer.		
45	2. Nozzle attachment welds (the root and final passes) to the shell and heads shall be liquid penetrant tested.		
46	3. PMI (Positive Material Identification) shall be implemented for all stainless steel material including welding rods.		
47	4. Final Certified Drawings are required.		
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AKER KVAERNER
MECHANICAL DATA SHEET
PRESSURE VESSEL

PREP. BY	JT	JT	CPH
CHKD. BY		RH	RLE
APPROVED		RH	RLE
DATE	5/8/2006	38876	1-15-15
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SKETCH



