



Data Sheet of GFRP Underground Fuel Storage Tank

SN	Description	Property	Comment
1	Max Internal Dia	3,000 mm	OD = 3140
2	Max Total Length	15,000 mm	Shell 13,500mm
3	Max burial depth	2,100 mm	Top of tank
4	Max Burial depth	5,240 mm	Bottom of tank
5	Glass content	60 - 70%	ASTM D2584
6	Max Weight / capacity	8,000 Kgs	Net Cap 102,000 liter
7	Color	As per Client RAL no	Pigmented resin during process
8	Body construction	Double walled	Interstitial gap 4-10 mm
9	Chemical Resistance	Isophthalic resin for fuel /diesel storage application and high temperature 80 degrees celsius	Resin certified by UL
10	Manufacturing process	Filament winding / contact moulding	BS EN 13121-3 :2016/ UL1316
11	Nozzles manway	CS painted Dia 600/750 mm	w/ internal CS pipes
12	Manway Gasket	Resistant to Fuel	UL Approved
13	Manway Shaft	Dia 1200/1500 mm	Height 1000-2100 mm
14	Shaft Top NPT Nozzles	4" Submersible Pump / 2-1/2" DIP assembly Pipe/2" Syphon W/Extended Pipe/3" Filling W/Extended Pipe/2" Vent assembly	2" suction spare
15	Design temp	HDT of resin + 20 Deg celsius	-



Technical Data Sheet of GFRP Underground Fuel Storage Tank

SN	Description	Property	Comment
16	Anchorage system	Non metallic straps with Turnbuckles in SS or GI	Prevent Buoyancy
17	Installation consideration	Petroleum storage application	BSEN 976-1 / BSEN 976-2
18	Monitoring System for double walled tank	Interstitial monitoring liquid	(Colored Brine)
19	Approved Backfill material	Pea gravel (3 to 20 mm) or crushed stone (3 mm to 12 mm) Max 3 % for # 8 sieve	ASTM C-33 Par 7.1 To be certified by Backfill supplier
20	Lifting system	SS 316 Lifting lugs min 4	-
21	Design Criteria	Withstand traffic load H20-axle load	Design life 30 years
22	Unstable soil installation (bearing cap < 1.71 Kgs/cm ²)	Allow for ½ Dia of tank from wall of tank to excavation wall	Concrete slab under tank
23	Traffic load consideration	Min cover depth of 1000 mm or 600 mm + concrete reinforced slab min 150 mm	-
24	Filter fabric	For Unstable soil / Tidal conditions / water condition with silty soil	To prevent migration of pea gravel with native soil
25	Concrete Pad	Bottom reinforced slab Designed for Buyoncy	Maintain 300 mm bed of backfill between bottom of tank and top of slab
26	Applications	Power Plants / Substations / Petrol Stations	

