

RELIABLE INDUSTRIAL

Technical Data Sheet: Overhead Water Storage Tanks

100% Virgin LLDPE

Doc Ref: TDS-WT-2026-V2 | Standards: IS 12701:1996 / FDA 21 CFR 177.1520

1. PRODUCT OVERVIEW & MATERIAL SPECIFICATIONS

Reliable Industrial supplies food-grade, heavy-duty overhead water storage tanks manufactured via computer-controlled Rotational Moulding (Rotomoulding). Built with 100% virgin Linear Low-Density Polyethylene (LLDPE), these tanks ensure completely safe, non-toxic, odorless potable drinking water and process liquid storage.

2. MULTI-LAYER TECHNOLOGY BREAKDOWN

Layer Type	Engineering Construction	Recommended Use
Single Layer (1-L)	Monolithic UV-stabilized black polymer body. Highly economical.	Civil backup, non-potable & construction utility.
Double Layer (2-L)	Black UV exterior + White non-pigmented virgin food-grade inner core.	Standard residential overhead drinking water.
Triple Layer (3-L)	Pigmented UV shield + Middle structural reinforcement + Anti-algal inner layer.	Premium domestic & commercial rooftop installs.
4-Layer Foam	Outer weather shield + High-density PUF thermal foam core + Inner food-grade layer.	Direct high-heat sun exposure (maintains water temp).
5-Layer Antibacterial	Multi-stage thermal shield with Silver/Copper-ion active antimicrobial lining.	Hospitals, pharma & ultra-hygienic facilities.

3. STANDARD DIMENSIONS & CAPACITY MATRIX

Capacity (L)	Diameter (mm)	Height (mm)	Manhole Dia (mm)	Standard BSP Connection
200 L	620	780	300	3/4" – 1" BSP
500 L	860	1,020	380	1" – 1.25" BSP
1,000 L	1,100	1,250	400	1.25" – 1.5" BSP
1,500 L	1,250	1,420	400	1.5" – 2" BSP
2,000 L	1,380	1,580	450	1.5" – 2" BSP
3,000 L	1,550	1,820	450	2" BSP
5,000 L	1,850	2,150	500	2" – 3" BSP
10,000 L	2,350	2,650	550	3" – 4" Flanged

4. TECHNICAL & MECHANICAL PERFORMANCE

Polymer Density (ASTM D1505) 0.932 – 0.940 g/cm³ (High environmental resistance)	Accelerated UV Stability (ASTM G154) > 8,000 Hours (Zero brittleness/color fade)
Tensile Strength @ Yield (ASTM D638) 16 – 20 MPa (Exceptional burst & impact strength)	Thermal Insulation Factor PUF Foam minimizes temp fluctuation up to 15°C
Melt Flow Index (IS 2530) 3.0 – 5.0 g / 10 min	Stress Crack Resistance (ASTM D1693) ESCR > 1,000 Hours

5. APPROVED BRANDS & AUTHORIZED SUPPLY

Authorized Brand Supply: Sintex | Ashirvad | Supreme | Plasto | Vectus | Finolex

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