

3m³ LCO₂ Storage Tank Parameter

1	Model		3M3
2	Type		Vertical
3	Standard		TSG 21、GB/T150、GB/T18442(Reference)
4	Design pressure(inner/outer)		2.25MPa/-0.1MPa
5	Maximum work pressure (inner/outer)		2.30MPa/-0.1MPa
6	Minimum Design Metal Temperature (inner/outer)		-40 °C/50°C
7	Nominal volume		2.91m ³
8	Filling rate		95%
9	Main material	Inner	16MnDR GB/T3531
10		Outer	Q345R GB/T713 (Carbon steel housing) S30408 GB/T24511 (Stainless steel housing)
11	Filling Medium		LCO ₂
12	Interlayer medium		High vacuum multi-layer winding
13	Helium leak test		YES
14	Vacuum interlayer leakage rate		≤1x10 ⁻⁸ Pa.m ³ /s
15	Static evaporation rate (liquid nitrogen)		N/A
16	Internal container at factory Holding pressure		20KPa
17	Factory vacuum degree		≤0.01Pa
18	Paint brand paint film thickness		Jordan 200um
19	Supporting form		Top suspension+support
20	Dimension (L*W*H) m		≈1.9×1.9×2.7
21	Chassis size(L*W) mm		1700x1700
22	Equipment weight (including chassis bracket)		≈2.5 ton

