

Cryogenic Tanks

- → The cryogenic tanks are composed of S30408 stainless steel inner container, Q345R (or Q245R) low-alloy structural steel outer cylinder, inner and outer cylinder support structure, and vacuum insulation sandwich structure. They are used to store LN2, LO2, LAr, and LCO2.
- ♦ LN2, LO2, and LAr cryogenic tanks are divided into vertical and horizontal structural types, with vertical storage tanks being the primary type.
- ♦ Vacuum powder insulation is used.
- → Designed and manufactured in accordance with national standards GB150 "Pressure Vessels," GB18442 "Cryogenic Insulated Pressure Vessels," and "Safety Technical Supervision Regulations for Fixed Pressure Vessels." The exported products have been designed and manufactured according to ASME or GB standards.
- ♦ WINGO cryogenic storage tank has reasonable structures, good insulation performance, long-lasting stability, safety and reliability, and easy maintenance.

Technical Specification of <u>Cryogenic Tanks (LO₂, LN2, LAr, LCO₂)</u>

	Effective volume(m³)	LN ₂ /LO ₂ /LAr Storage Tanks										LCO₂ Storage Tanks							
1		5	10	15	20	30	50	100	150	200	250	5	10	15	20	30	50	100	150
2	Working pressure(Mpa)	0.2/0.8/1.6/2.2/3.2/3.5								2.2									
3	Filling rate (%)	95									95								
4	Adiabatic System	Vacuum powder/High vacuum multilayer winding insulation							Vacu ir	Vacuum powder insulation									
5	Support structure	Steel pipe support						el pipe	Steel pipe support					Steel pipe support/ Sling construction					
6	Inner, outer vessel material	Q30408, Q345R/Q245R									16MnDr, Q345R/Q245R								
7	Inner vessel process	National standard/strain							lation: tanda:		National standard								
8	Design Code	GB150/GB18442 (ASME for overseas)							rseas)		GB150/GB18442 (ASME for overseas)								
9	Vacuum factory standard (Pa)	1			3		5			1 3			3	5					
10	Basic Configuration	Root valve, level gauge, pre explosion-proof device, Vacuum silicon tu						cuum	Root valve, level gauge, pressure gauge, explosion-proof device, Vacuum valve, vacuum silicon tube										
11	Paint	Jotun/PPG							Jotun/PPG										



Technical Specification of <u>Cryogenic Tanks (LNG)</u>

		20	30	50	60	100	150	200	250	300		
1	Effective volume(m³)	18	27	45	54	90	135	180	225	270		
2	Working pressure (Mpa)	0.6/0.7/0.8/1.2										
3	Filling rate (%)	90										
4	Adiabatic System			um powd i-layer wi	Vacuum powder							
5	Support structure		Stee	l pipe su		Steel pipe support/ Sling construction						
6	Inner outer vessel material	Q30408 Q345R										
7	Inner vessel process		Na	tional sta	National standard							
8	Design Code	GB150/GB18442 (ASME for overseas)										
9	Vacuum factory standard (Pa)	1 3						5				
10	Basic Configuration		Root valve, level gauge, pressure gauge, explosion-proof device, Vacuum valve, vacuum silicon tube									
11	Paint	Jotun/PPG										

