



SAILING VEHICLE

天津塞羚汽车有限公司 TIANJIN SAILING VEHICLE CO., LTD.

No.6975, Asia Road, Dongjiang Bonded Port Area, Tianjin City, China.

Tel: +86 17303276268

Web: www.sailingvehicle.com

37CBM Liquid Nitrogen Tank Specification

Tank trailer specification			
1	Medium	Liquid Nitrogen (LN2).	
2	Overall dimension	11520x2500x3350mm (L*W*H)	
3	Curb weight	12,400 KG	
4	Payload capacity	27,600 KG	
5	Design Speed	≤79 km/h	
6	Design Temperature	-157.5/50 °C	
7	Working Temperature	-196~157.2°C/-40~50 °C	
8	Design Pressure	1.60MPa	
9	Working Pressure	≤1.60MPa	
10	Weld Joint Efficiency	1.0	
11	Corrosion Allowance	0 mm	
12	Rated Fill Ratio	0.925	
13	Filling Density per Unit Volume	747 kg/m ³	
14	Insulation Type	High Vacuum Multi-layer Insulation	
15	Tank Gross Weight	6456 kg	
16	Service life	10 years	
17	Fifth-wheel height	1320mm (Generally within 1250 - 1450 mm; precise dimensions required based on customer's truck head.)	
Tank body specification			
18	Tank shape	Cylindrical round	
19	Tank capacity	37 CBM	
20	Tank body material	S30408	
21	Tank Design thickness	End cover	8 mm
		Tank body	11.5 mm
Tank parts specification			
22	Liquid level meter	Type	Combined differential pressure type
		Model	MZC-IIA
		Nominal Pressure	4.0 MPa

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		Surveying range	0~1500 mmWCmm	
		Precision	2.5Grade	
		Connection Type	Threaded	
23	Emergency cutting valve	Model	Gas phase	DJQ-50
			Liquid phase	DJQ-50
		Nominal pressure		2.5 MPa
		Nominal diameter	Gas phase	DN50mm
			Liquid phase	DN50mm
		Operation way		Manual
		Closing time		≤5 Sec
		Melting switch temperature		75±5°C
24	Safety valve	Type	Threaded	
		Model	DAY-25	
		Nominal pressure	4.0 MPa	
		Nominal diameter	DN25mm	
		Set pressure	1.74/1.77 MPa	
		Re-seating pressure	1.57 MPa	
		Rated relieving pressure	1.85 MPa	
25	Flame Arrester	Model	DGZ-40	
		Nominal Pressure	4.0 MPa	
		Nominal Size	DN40	
		Connection Type	Welded	
26	Pressure gauge	Type	YTN-100	
		Model	Threaded connection	
		Precision	1.6 grade	
		Surveying range	0~ 1.6 MPa	
27	Thermometer	Type	Ultra-low Temperature Gauge	
		Model	Threaded connection	
		Precision	1.5 grade	
		Surveying range	-196°C ~ +50°C	

Trailer parts specification

28	Axle	13T Brand TSV with ABS and automatic slack adjusters & 3 units. (BPW/Fuwa/L1 brands optional)
29	Tire	12R22.5 & 12 units (Tubeless type). (Triangle/Doublecoin/Linglong/Chaoyang brands optional)



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30	Rim		9.00 & 12 units, high strength iron.
31	King pin		50#(2") or 90# (3.5") , Standard bolt type & Brand JOST
32	Landing gear		Capacity 28T, Brand JOST, Model A300C
33	Suspension		Mechanical suspension,leaf springs,16mm*90mm*10pcs
34	Ladder		1 unit
35	Spare wheel carrier		2 units.
36	Mud guard plate		Integrated design plate, carbon steel.
37	Relay valve		Brand WABCO
38	Reverse buzzer		1 unit.
39	Electric system		24V, 7-pin socket, National standard.
40	Lights		LED lights with protection. Side/rear/stop/indicator/parking/fog/reverse/clearance lights etc.
41	Painting	Primer layer	One coat of anti-corrosive paint.
		Final coat	Two coats of finish paint.
		Color	As the customer's requirements.
42	Delivery		Spray wax before departure and cover with tarpaulin for protection.
Other equipment			
1.Single tool box, maximum available size. 2.Single valve box, maximum available size. 3.Loading and unloading on left side. 4.Two sets of 8KG fire extinguishers with boxes. 5.One set of anti-static grounding strap. 6.All other necessary accessories.			

Thank for checking!