

答



					5000DWT 散货船		XIANGZHOU	
					5000DWT BULK CARRIER			
					吨位计算书		ZXS4978V(IV)-101-02JS	
					TONNAGE		TOTAL AREA 0.18 m ² 共 3 页 第 1 页	
					CALCULATION		TAZHOU ZHENGXING SHIP DESIGN & RESEARCH INSTITUTE	
year No Of bas	DESIGN	张彤彤	TRACING					
	CHECK	董明	CHECKED OF TRA					
year No Of bas	APPROVE							
	CHECK OF STA	林国富						
	DATE							

一、计算说明 EXPLANATION:

本计算书系按照中华人民共和国海事局《船舶与海上设施法定检验规则》(国内航行海船法定检验技术规则 2004) 与 (2006 年修改通报) 的要求进行计算。船体主要部分体积计算参照邦戎曲线计算书。

This calculation has been made in accordance with the requirement of "Regulation of statutory Survey for ship and establishment on sea (Regulation of statutory Survey for internal ships on sea 2004) and amendment 2006 published by Maritime Safety Administration People's Republic Of CHINA(CHINA MSA)

Volume calculation of main hull part refers to bonjean curve table.

二、船舶主要参数 PRINCIPAL DIMENSIONS:

总 长:	Overall length	96.90m
垂线间长:	Length between P.P.	89.80m
型 宽:	Breadth moulded	15.80m
型 深:	Depth moulded	7.40m
梁 拱 h:	Camber h	0.16m

三、量吨甲板以下的型容积 V_1 计算: (查邦戎曲线表)

VOLUME MOULDED V_1 BELOW TONNAGE DECK (SEE BONJEAN CURVE)

$$V_1=8824.7\text{m}^3$$

四、量吨甲板以上的型容积 V_2 计算:

VOLUME MOULDED V_2 ABOVE TONNAGE DECK

1、首楼型容积 V_3 : (查邦戎曲线表)

Volume moulded V_3 of forecastle(see bonjean curve)

$$V_3=174.5\text{m}^3$$

2、甲板室型容积 V_4

Volume moulded V_4 of Deckhouse

主甲板以上 above main deck

第一层(CAD 计算) No.1 tier(CAD calculation)

$$126.34 \times 2.5=315.85\text{m}^3$$

第二层 No.2 tier

$$(10.8+48) \times 2.3=135.24\text{m}^3$$

第三层 No.3 tier

$$48 \times 2.3=110.4\text{m}^3$$

第四层 No.4 tier

$$11.78 \times 8-0.6 \times 2.4 \times 2.4=90.78\text{m}^3$$

3、货舱口容积 V_5 (查邦戎曲线表)

Volume V_5 of Hatch((see bonjean curve)

$$V_5=47.7+311.7+81+260.5=700.9\text{m}^3$$

<div>吨位计算书</div> <div>Tonnage calculation</div>	<div>ZXS4978V(IV)-101-02JS</div>	<div>Total 3</div>
		<div>Page 3</div>
<div> <div>4、 烟囱容积 V_6</div> <div>Volume V_6 of Funnel</div> <div>$V_6=(2 \times 2+3.6 \times 3) \times 5 / 2=37 m^3$</div> <div>5、 舱口盖容积 Volume of Hatchcover</div> <div>$V_7=(27.18+25.9) \times 9.75 \times 0.4=207.01 m^3$</div> <div>6、 量吨甲以上的型容积 V_2</div> <div>Volume moulded V_2 above tonnage deck</div> <div>$V_2=V_3+V_4+V_5+V_6+V_7$</div> <div>$=1771.69 m^3$</div> <div>五、 全船型容积 V:</div> <div>VOLUME MOULDED V ONBOARD</div> <div>$V=V_1+V_2$</div> <div>$=10596.39 m^3$</div> <div>六、 总吨位计算 GROSS TONNAGE CALCULATION:</div> <div>$GT=K_1\left(V_1+V_2\right)$ 查附表系数得 (consult from the attached table) $K_1=0.2805$</div> <div>$=2972$</div> <div>七、 净吨位计算 NET TONNAGE CALCULATION</div> <div>$NT=0.56 GT=0.56 \times 2972=1664$</div> </div>		

0.0 deg	HYDROSTATICS	TRIM BY STERN	0.000 m	ANGLE OF HEEL	0.0 deg
6.912	1 DRAUGHT EXTREME... m :	7.012	7.112	7.212	7.312
6.900	2 DRAUGHT RFP..... m :	7.000	7.100	7.200	7.300
					7.412
					7.400
8092.3	3 DISPL TOTAL SW.... t :	8227.7	8363.5	8499.9	8636.7
7894.9	4 DISPL TOTAL FW.... t :	8027.0	8159.5	8292.5	8426.0
7872.1	5 DISPL MLD..... m^3 :	8003.9	8136.3	8269.1	8402.3
					8536.1
	6 LCF FWD RFP..... m :	-1.428	-1.487	-1.544	-1.601
-1.340	7 TCF STB OF RFP.... m :	0.000	0.000	0.000	0.000
0.000	8 LCB FWD OF RFP.... m :	2.116	2.057	1.999	1.942
2.176	9 TCB STB OF RFP.... m :	0.000	0.000	0.000	0.000
0.000	10 VCB ABOVE RFP.... m :	3.702	3.757	3.811	3.866
3.648					3.920
	11 KMT..... m :	6.760	6.781	6.804	6.829
6.736	12 KML..... m :	103.7	103.0	102.3	101.6
104.3	13 IT..... m^4 :	24470	24608	24750	24895
24311	14 IL/1000..... m^4 :	800.4	807.4	814.4	821.6
792.3	15 MCT SW..... t*m/cm :	91.36	92.16	92.96	93.77
90.44	17 TPM SW..... t/cm :	13.516	13.563	13.609	13.656
13.463	22 WPA..... m^2 :	1318.7	1323.2	1327.7	1332.3
1313.5	23 WETSURF..... m^2 :	2306.9	2327.4	2347.9	2368.4
2285.9					2389.0
	24 CB..... :	0.8059	0.8077	0.8095	0.8112
0.8041	25 CP..... :	0.8220	0.8226	0.8252	0.8268
0.8205	26 CM..... :	0.9803	0.9816	0.9809	0.9811
0.9801	27 CW..... :	0.9294	0.9326	0.9358	0.9390
0.9257	28 CWF..... :				0.9422
	29 CBF..... :				
	COMPASS				
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	30 DISPL TOTAL SW [t]				
073.3	TRIM AFT -2.000 m	8204.5	8325.6	8441.1	8554.3
077.1	TRIM AFT -1.000 m	8211.1	8345.7	8481.0	8615.4
092.3	TRIM AFT 0.000 m	8227.7	8363.5	8499.9	8636.7
118.4	TRIM AFT 1.000 m	8254.8	8391.5	8528.5	8659.5
152.9	TRIM AFT 2.000 m	8274.9	8378.0	8476.6	8571.9
077.5	TRIM AFT 3.000 m	8176.4	8273.1	8367.1	8459.4
					8549.9
	31 KMT [m]				
5.656	TRIM AFT -2.000 m	6.309	6.038	5.914	5.825
5.692	TRIM AFT -1.000 m	6.715	6.739	6.765	6.373
5.736	TRIM AFT 0.000 m	6.760	6.781	6.804	6.829
5.777	TRIM AFT 1.000 m	6.798	6.820	6.669	6.136
5.506	TRIM AFT 2.000 m	6.103	5.962	5.840	5.736
5.922	TRIM AFT 3.000 m	5.852	5.792	5.716	5.670
					5.619
	32 LCB FWD RFP [m]				
3.392	TRIM AFT -2.000 m	4.313	4.195	4.068	3.942
3.306	TRIM AFT -1.000 m	3.235	3.170	3.106	3.038
3.176	TRIM AFT 0.000 m	2.116	2.057	1.999	1.942
3.022	TRIM AFT 1.000 m	0.976	0.926	0.878	0.857
3.122	TRIM AFT 2.000 m	-0.097	0.007	0.120	0.237
3.772	TRIM AFT 3.000 m	-0.653	-0.527	-0.401	-0.277
					-0.155

舱容总结表 / Capacity Table

序号 NO	舱室名称 CAPACITY NAME	纵向位置 LOCATION	容 积 CAPACITY m ³	形心距舯 LCG m	形心高度 VCG m	液体密度 ρ t/m ³
1	第一货舱 ch1 NO.1 Cargo hold	#80~#131	3185.53	21.249	4.655	----
2	第二货舱 ch2 NO.2 Cargo hold	#28~#80	3269.11	-10.745	4.609	----
3	机舱 eng Engine room	#7~#28	840.15	-33.263	4.639	----
4	淡水舱 1 fwt1 NO.1f.w.tk	#136~#148	47.53	42.732	6.692	1.00
5	淡水舱 2 fwt2 NO.2f.w.tk	艟~#4	19.61	-44.696	7.182	1.00
6	燃油舱 1 fot1 NO.1f.o.t	#22~#28	44.94	-29.241	5.104	0.95
7	燃油舱 2 fot2 NO.2f.o.t	#20~#28	57.10	-29.861	5.272	0.95
8	燃油舱 3 fot3 NO.3f.o.t	#18~#22	11.99	-32.482	6.071	0.95
9	燃油舱 4 fot4 NO.4f.o.t	艟~#4	52.50	-42.859	6.459	0.95
10	燃油日用舱 fodly F.o.daily tk	#14~#16	4.45	-35.577	6.236	0.95
11	燃油沉淀舱 foaset F.o.settl.tk	#16~#18	4.99	-34.362	6.147	0.95
12	柴油舱 1 dot1 NO.1 d.o.tk	#13~#27	17.80	-31.697	0.636	0.90
13	柴油舱 2 dot2 NO.2 d.o.tk	#13~#27	26.84	-32.002	0.607	0.90
14	柴油日用舱 1 dodl1 NO.1 d.o.daily tk	#13~#14	1.96	-36.486	6.275	0.90
15	柴油日用舱 2 dodl2 NO.2d.o.daily tk	#12~#13	1.79	-37.085	6.304	0.90
16	滑油循环舱 lost l.o.s.t.	#23+100~#26+100	1.59	-29.800	1.600	0.90
17	滑油舱 lot Lub.oil tk	#16~#19	7.55	-33.995	6.537	0.90
18	渣油 ort Oil residue tk	#23+580~#26	1.08	-29.610	1.600	0.90
19	油污水舱 slgw	#10~#13	4.35	-37.526	0.632	1.00
20	冷却水舱 cool Cooling water tank	#4~#7	11.72	-40.745	3.450	1.00
21	第一底压载水舱(左) bwb1p NO.1b.w.b.tk(p)	#80~#131	246.00	20.678	0.684	1.025
22	第一底压载水舱(右) bwb1s NO.1b.w.b.tk(s)	#80~#131	246.00	20.678	0.684	1.025
23	第二底压载水舱(左) bwb2p NO.2b.w.b.tk(p)	#28~#80	247.68	-9.896	0.676	1.025
24	第二底压载水舱(右) bwb2s NO.2b.w.b.tk(s)	#28~#80	247.68	-9.896	0.676	1.025
25	第一顶压载水舱(左) twb1p NO.1t.w.b.tk(p)	#80~#131	118.03	20.703	6.885	1.025