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重庆纽沃贸易有限公司
CHONGQING NEW WORLD TRADING CO., LTD



Introduction to glass properties

The glass instruments produced by our factory are made of different performance glass according to the different technical requirements of the products, and their physical and chemical properties are described below.

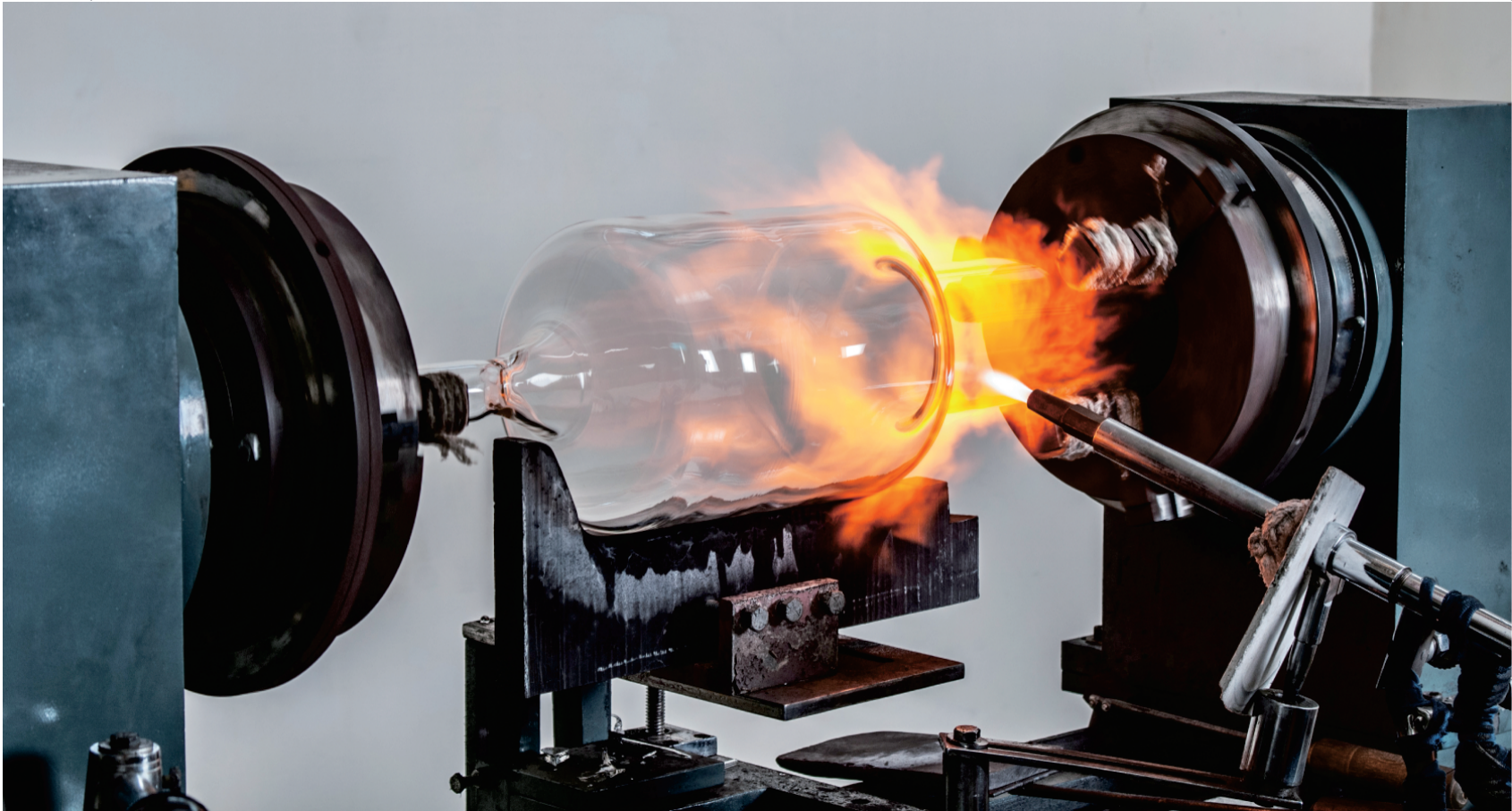
GG17 High Temperature Glass (High Borosilicate 3.3 Glass)

GG17 glass (High Borosilicate 3.3 Glass) is a low alkali high borosilicate glass, does not contain calcium, magnesium, zinc and lead elements, has good physical and chemical properties, used in the manufacture of heat-resistant glass instruments

It is used to make heat-resistant glass instruments and other demanding utensils and various precision instruments for lamp workers.

The physical and chemical properties are as follows.

Silicon content 80%	Coefficient of linear thermal expansion 20 - 300~C 3.3 x 10 [^] (-7)
Strain temperature 520°C	Thermal shock resistance (glass rod method) 300°C
Annealing temperature 560°C	Water resistant Grade 1
Softening temperature 820°C	Material:High Borosilicate 3.3 Glass



Glass measuring instruments

DescriptionThe general purpose glass measuring instruments produced by our factory for laboratory use: measuring cups, measuring janes, is bottles, burettes, pipettes and indexing pipettes, all conform to the national standards GB12803-GB12808. Their capacity calibration and usage should refer to GB/T12810 national standard. In order to ensure the correct measurement, all of our measuring instruments are tested in accordance with the JJG196 common glass measuring instrument calibration regulations. The main technical data of the glass measuring instruments are described as follows:

1 Accuracy level

Glass measuring apparatus, measuring bottle, burette, pipette and indexing pipette, according to the customer volume accuracy is divided into two kinds of A and B. B level of capacity tolerance for A level double. On the indexing side, they are marked with the class code "A" or "B". Measuring cups and measuring jars are not graded O

2 mark glass measures in millilitres, marked with the symbol 'm1', which is equivalent to 'cm3'.Management of graduated suction

The standard temperature for quantification is "20°C" and should be kept at room temperature of 290°C when in use.

Measuring instruments for outgoing measurements are indicated by "Ex", e.g. Burettes, pipettes, graduated pipettes, measuring cups, measuring jars.

Measuring instruments for incoming measurements are denoted by "In", e.g. Measuring flasks, stoppered measuring cylinders, measuring cylinders. On glass measuring vessels with frosted pistons and glass stoppers, the stopper and the vessel are marked with the same number so that they can be matched by number to avoid leakage. A standard frosted interface measure

Frosted mouths, stoppers may not be marked with a number.

3 Colour ring marking

For quick identification of pipettes and graduated pipettes of different sizes and capacities. In accordance with the international standard ISO 13485 and the provisions of the standard OB 962 suction tube colour marking on the handle part of the above-mentioned straws, printed with different colour ring markings in order to distinguish

4 Flow time

Due to the influence of surface adhesion, the wave body through the measure, its inner wall will adhere to a thin layer of liquid, the volume of the layer of liquid and the liquid outflow time, usually the shorter the outflow time, the more the residual wave body, and vice versa, the less. However, the outflow time is too long, affecting the efficiency of the work, so in the A-class measuring device, there is a waiting time specified in order to improve the accuracy. The current glass measuring device water flow out time and waiting time, specified in the product specification and Table 1, 2, 3. 5 Volume of aS allowable deviation

Glass measuring device according to the product specifications, there are different allowable deviation of the volume, single mark the allowable deviation for the absolute tolerance, and multiple divisions of the tolerance of the gauge is based on the full capacity of the tolerance, for some divisions of the capacity, the relative tolerance value should be given sufficient attention in order to choose the appropriate species specifications. Gauge allowable deviation values, listed in the product specification and Table 1-6

6 glass 9S reading

The adjustment of the liquid level of the glass measuring instrument should be in accordance with the international standard ISO13485 and the national standard GB/T12810 "calibration and use of glass measuring instruments", reproduced below:

Adjustment of the curved liquid level

The curved liquid level is the interface between the wave body and the air of the volume to be measured.

Most gauges use the principle of setting and reading the curved level against a reference line or index line.

The curved wavefront should be set so that the lowest point of the curved liquid surface is tangent to the level of the edge of the index line and the sight line is at the same level as the edge of the index line, however the mercury curved liquid surface should be tangent to the level of the lower edge of the index line at its highest point. When opaque liquids are used, the horizontal line of sight should pass through the upper edge of the curved liquid surface and be properly calibrated if necessary.

A proper arrangement of light allows the curved liquid surface to be dark and well defined. For this purpose, a white background should be used and any unwanted stray light should be removed. For example, a strip of black paper or a small piece of thick black tape cut into the wall of the gauge can be placed no more than 1 mm below the gauge's positioning level.

When the index line is long enough to be viewed from both the front and rear of the gauge, the line of sight should be at a point where the front and rear of the upper edge partially coincide to avoid parallax. When the gauge has an indexing line only at the front, parallax is negligible when the edge of the indexing line is set with a black masking tape. However, it should be noted that the eye should be read at the same level as the edge of the indexing line.



Laboratory Glasswares

1-31



Microscope Slide & Cover Glass

32-34

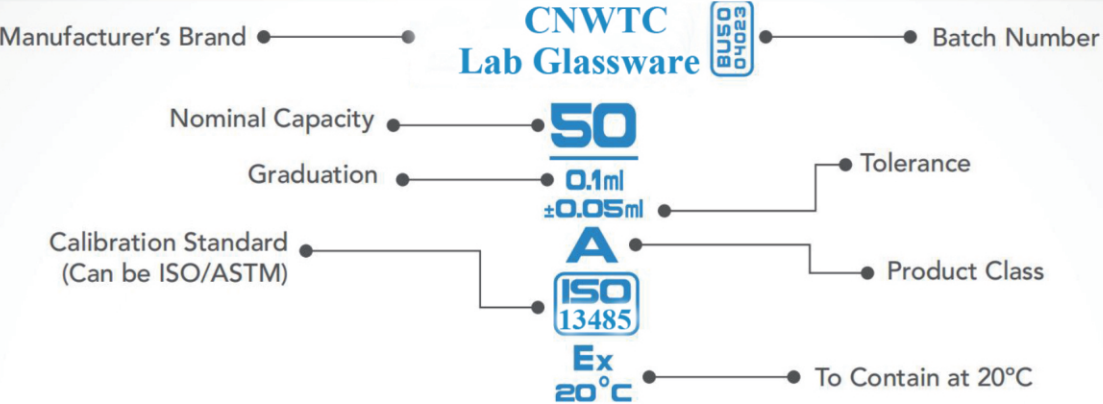


Lab Porcelain Products

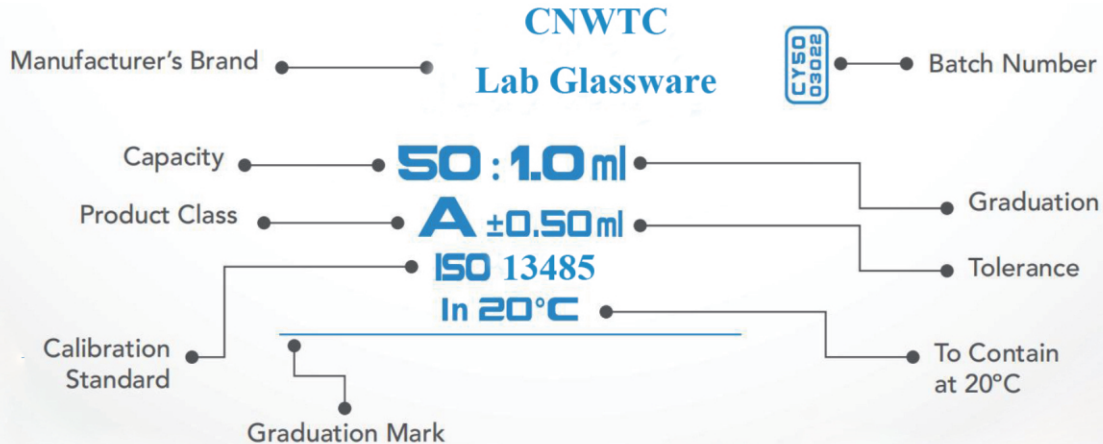
35-36

Understanding the Markings of Volumetric Glassware

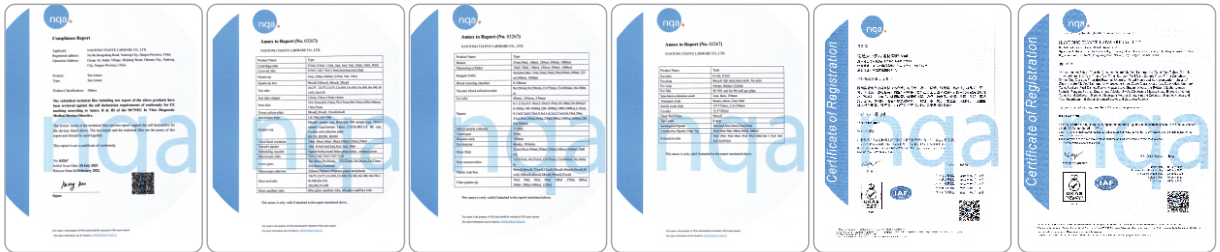
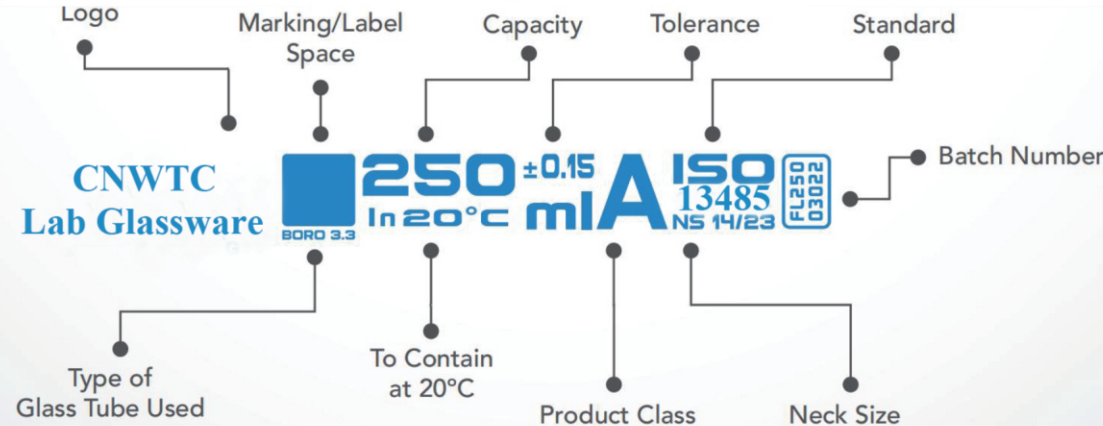
Burettes



Cylinders



Volumetric Flasks (ISO)



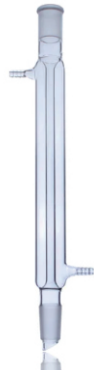
Watch Glass

	ITEM CODE	Diameter(mm)
	1175	45
	1175	60
	1175	70
	1175	80
	1175	90
	1175	100
	1175	120
	1175	150
	1175	180

GLASS PETRI DISH

	Code	Bottom dia(mm)	Height(mm)	Cover dia(mm)
	1177	60	15	65
	1177	75	15	82
	1177	90	18	98
	1177	100	20	107
	1177	120	25	130
	1177	150	30	160

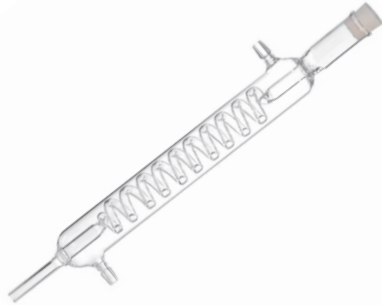
Condenser,With fused inner tube,Liebig Boro 3.3 Glass

	ITEM CODE	Length of jacket(mm)	O.D.of upper tube(mm)	Cooling area(mm)	Length(mm)
	1213	200	18	0.7	350
	1213	250	18	1.0	420
	1213	300	20	1.1	480
	1213	400	22	1.6	590
	1213	500	24	2.2	710
	1213	600	24	2.8	810
	1213	800	28	4.3	1050
	1213	1000	28	5.7	1250

Condenser with bulbed inner tube,Allihn Boro 3.3Glass

	ITEM CODE	Length of jacket (mm)	O.D.of upper tube(mm)	Cooling area(mm)	Length(mm)
	1214	200	18	1.0	350
	1214	250	18	1.5	420
	1214	300	20	1.8	480
	1214	400	22	2.7	590
	1214	500	24	3.7	710
	1214	600	24	4.9	800
	1214	800	28	7.6	1050
	1214	1000	28	10.0	1250
	1214	1200	33	12.7	1360
	1214	1500	33	17.0	1720

Condenser with coiled inner tube,Graham Boro 3.3 Glass

	ITEM CODE	Length of jacket (mm)	O.D.of upper tube (mm)	Cooling area (mm)	Length(mm)
	1215	200	18	2.3	350
	1215	250	20	2.7	420
	1215	300	20	3.3	480
	1215	400	22	4.7	590
	1215	500	24	7.0	710
	1215	600	24	8.2	810

Test tubes with rim,Plain,Boro 3.3 glass or Neutral Glass

	ITEM CODE	O.D. of tube(mm)	Length(mm)
	1232	10	100
	1232	12	100
	1232	13	100
	1232	13	130
	1232	15	100
	1232	15	150
	1232	16	125
	1232	16	155
	1232	18	150
	1232	18	180
	1232	19	150
	1232	21	150
	1232	21	180
	1232	21	200
	1232	25	180
	1232	30	200
	1232	41	225

Test tube with graduations

	ITEM CODE	Capacity(ml)	Graduation(ml)	O.D. of tube(mm)	Length(mm)
	1236	5	0.1	11	110
	1236	10	0.2	14	130
	1236	15	0.2	15	150
	1236	20	0.5	17	165
	1236	25	0.5	18	180
	1236	30	0.5	19	180
	1236	50	1.0	23	200

Glass Centrifuge Tube Conical

	Code	Capacity(ml)	O.D. of Tube (mm)	Length (mm)
	1241	5	14	90
	1241	10	17	110
	1241	15	19	120
	1241	25	23	140
	1241	50	33	150

Glass Centrifuge Tube Conical with Graduation



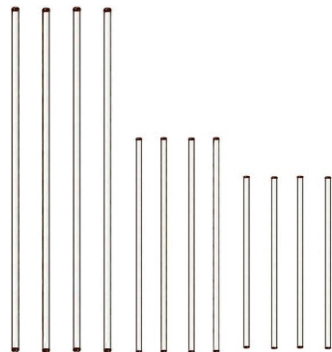
Code	Capacity(ml)	Graduation (ml)	O.D. of Tube (mm)	Length (mm)
1242	5	0.1	14	90
1242	10	0.1	17	110
1242	15	0.1	19	120
1242	25	0.2	23	140
1242	50	0.2	33	150

Stopcock, Straight bore, Two-way



ITEM CODE	Bore of core(mm)	O.D. of side arm(mm)	Length of side arm(mm)
1271	2	8	120
1271	4	8	120
1271	6	10	120
1271	8	12	120
1271	10	14	120
1271	12	17	120
1271	15	20	120
1271	20	23	120

Glass Stirrer Rod



ITEM CODE	O.D. of Rod (mm)	Length (mm)
1294	7-8	330

Weighing bottle, Tall form



ITEM CODE	OD.(mm)	Length(mm)
1301	25	25
1301	25	40
1301	30	50
1301	30	60
1301	35	70
1301	40	70
1301	45	30
1301	45	70

Weighing bottle, Low form



ITEM CODE	O.D.(mm)	Length(mm)
1302	30	20
1302	30	25
1302	40	25
1302	50	30
1302	60	30
1302	60	35
1302	60	40
1302	70	30
1302	70	35
1302	70	40

Gas drying tower



ITEM CODE	Capacity(ml)	O.D. of body(mm)	Height(mm)
1311	250	50	330
1311	500	60	400

Desiccator with Porcelain Plate, Clear Glass



ITEM CODE	I.D.(mm)	Total Height (mm)	Height of Body (mm)
1351	120	180	110
1351	150	220	135
1351	180	260	160
1351	210	275	180
1351	240	325	210
1351	300	355	235
1351	350	400	255
1351	400	460	300

Desiccator with porcelain plate, Amber glass



ITEM CODE	I.D. (mm)	Total height (mm)	Height of body (mm)
1352	120	180	110
1352	150	220	135
1352	180	260	160
1352	210	275	180
1352	240	325	210
1352	300	355	235
1352	350	400	255
1352	400	460	300

Adapter 105° bent, Standard ground mouth

	ITEM CODE	Ground mouth	Total length(mm)
	5055	10/19	110
	5055	14/23	120
	5055	19/26	130
	5055	24/29	140
	5055	29/32	150

Suction adapter, Straight, Standard ground mouth

	ITEM CODE	Ground mouth	Ground stopper
	5056	10/19	10/19
	5056	14/23	14/23
	5056	14/23	19/26
	5056	19/26	19/26
	5056	19/26	24/29
	5056	24/29	24/32
	5056	29/32	29/32

Receiving test tube, Standard ground mouth

	CODE	Ground mouth	O.D. of side tube(mm)
	5057	14/23	10
	5057	19/26	12
	5057	24/29	12

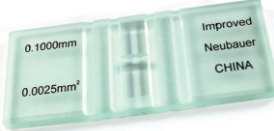
Glass Pasteur Pipette

	Item Code	Length (mm)	Tip	Mouth
	8305-1	230	Closed	With Cotton in mouth
	8305-2	150	Closed	With Cotton in mouth
	8305-3	230	Open	Without Cotton in mouth
	8305-4	150	Open	Without Cotton in mouth

Separatory funnel, pear shape, with ground-in glass stopper and PTFE stopcock

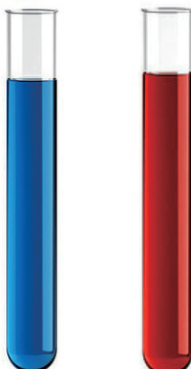
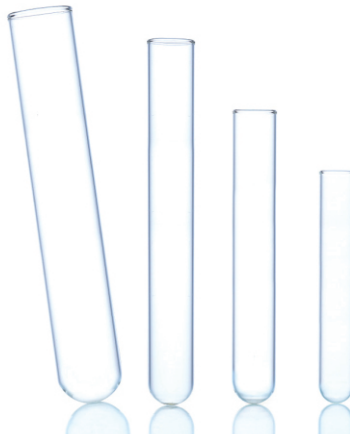
	ITEM CODE	Capacity (ml)	O.D. of stem x length (mm)	Total height (mm)
	8543	60	10x70	220
	8543	125	10x70	260
	8543	250	11x70	290
	8543	500	12x70	330
	8543	1000	12x70	400

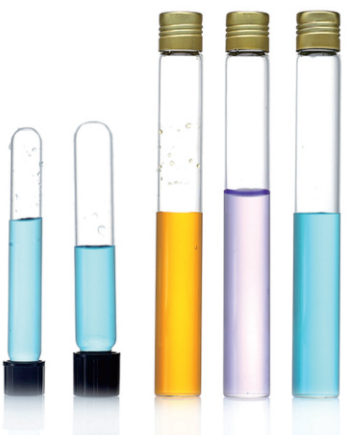
Blood Counting Chamber Neubauer Improved

	Item Code	Material	Special Depth
	TYJ15	Normal Glass	0.100mm
	TYJ16	Ultra White Glass	0.100mm
	TYJ15-1	Ultra White Glass with Bright line	0.100/0.200mm

glass capillary tube

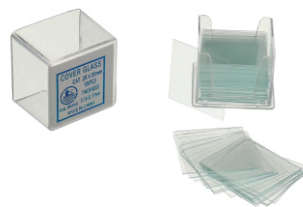
	Code	Description	I.D.(mm)	O.D.(mm)	Packing	Carton Size (cm)	Weight(kg)
	TYG19	Glass Without heparin, blue top	1.1-1.2	1.5-1.6	100pcs/barrel, 50000pcs/ctn	27*26*45	16
	TYG19-1				500pcs/barrel, 50000pcs/ctn	49*24*18	14
	TYG20	Glass With heparin, red top	1.1-1.2	1.5-1.6	100pcs/barrel, 50000pcs/ctn	27*26*45	16
	TYG20-1				500pcs/barrel, 50000pcs/ctn	49*24*18	14

Glass test tube			
	Code	Diameter (mm)	Length (mm)
	TYG01	12	75
	TYG01-1	10	75
	TYG02	12	100
	TYG03	13	100
	TYG03-1	13	75
	TYG03-2	14	120
	TYG04	15	100
	TYG04-1	15	120
	TYG05	16	100
	TYG06	16	150
	TYG06-16	16	160
	TYG07	18	180
	TYG08	20	150
	TYG08-1	20	175
	TYG09	20	200
	TYG10	25	200
	TYG10-1	25	150
	TYG42	8	30
	TYG43	8	35
	TYG44	8	50
	TYG45	6	30
	TYG46	6	35
	TYG47	6	50
	TYG48	22	200
	TYG49	26	150
	TYG50	30	200
	TYG51	24	150
	TYG52	24	200
	TYG53	26	200
	TYG54	30	150
	TYG55	22	150
	TYG56	30	120

Glass Test Tube with Screw Cap			
	ITEM CODE	Diameter(mm)	Length(mm)
	TYG02-1	12	100
	TYG11	13	100
	TYG12	15	100
	TYG13	15	150
	TYG05-1	16	100
	TYG14	16	150
	TYG16-1	16	125
	TYG24	16	160
	TYG15-1	18	145
	TYG18-3	18	150
	TYG15	18	180
	TYG16	20	150
	TYG15-2	20	180
	TYG17	20	200
	TYG18	25	200
	TYG26	25	150

Adhesion slide: 26*76mm, (1" * 3"), 45° corners, ground edges, positive charged,						
	Code	Specification	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)
	TYI01	Glass, 45° corners, ground edges, positive charged	26 *76 (1" * 3")	1-1.2	50pcs/box 50box/ctn	42*20*16

Cover glass: 0.13-0.17mm thickness						
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)
	TYI-1818C	Glass	18*18	0.13-0.17	100pcs/box, 500boxes/ctn	31*33*14
	TYI-1818C-1				200pcs/box, 200box/ctn	36*42*24

Cover glass: 0.13-0.17mm thickness						
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)
	TYI-2020C	Glass	20*20	0.13-0.17	100pcs/box 500boxes/ctn	31*33*14

Cover glass: 0.13-0.17mm thickness						
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)
	TYI-2222C	Glass	22*22	0.13-0.17	100pcs/box 500boxes/ctn	31*33*14
	TYI-2222C-1				200pcs/box 200boxes/ctn	36*42*27

Cover glass: 0.13-0.17mm thickness						
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)
	TYI-2240C	Glass	22*40	0.13-0.17	100pcs/box, 250boxes/ctn	35*34*14
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)
	TYI-2440C	Glass	24*40	0.13-0.17	100pcs/box, 250boxes/ctn	36*30*14

Cover glass: 0.13-0.17mm thickness							
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight (kg)
	TYI-2424C	Glass	24*24	0.13-0.17	100pcs/box, 500boxes/ctn	35*34*14	14

Cover glass: 0.13-0.17mm thickness							
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight (kg)
	TYI-2432C	Glass	24*32	0.13-0.17	100pcs/box, 500boxes/ctn	36*30*14	14

Cover glass: 0.13-0.17mm thickness							
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight (kg)
	TYI-2450C	Glass	24*50	0.13-0.17	100pcs/box, 250boxes/ctn	35*34*14	20

Cover glass: 0.13-0.17mm thickness							
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight (kg)
	TYI-2460C	Glass	24*60	0.13-0.17	100pcs/box, 250boxes/ctn	36*30*14	20

Microscope Slide 7101							
	Code	Specification	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight(kg)
	TYI-7101A	Glass, polished edges, plain	25x75mm 26x76mm 25.4x76.2mm (1"x3")	1-1.2 (mm)	50pcs/box, 50box/ctn	37*18*16	14
	TYI-7101B	Glass, cut edges					
	TYI-7101-B65				65pcs/box, 50box/ctn	44*20*16	18
	TYI-7101-72				72pcs/box, 50box/ctn	44*20*16	20

Microscope Slide 7102							
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight (kg)
	TYI-7102	Glass, cut edges	25x75mm 26x76mm 25.4x76.2mm (1"x3")	1-1.2	50pcs/box, 50box/ctn	37*18*16	16
	TYI-7102 (72)				72pcs/box, 50box/ctn	44*20*16	20

Microscope Slide 7105							
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight (kg)
	TYI-7105	Glass, polished edges, frosted one end on one side	25x75mm 26x76mm 25.4x76.2mm (1"x3")	1-1.2	50pcs/box, 50box/ctn	37*18*16	14
	TYI-7105 (72)				72pcs/box, 50box/ctn	44*20*16	20

Microscope Slide 7107							
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight (kg)
	TYI-7107	Glass, Polished Edges (45°/90° angle), Frosted one end on both sides	25x75mm 26x76mm 25.4x76.2mm (1"x3")	1-1.2	50pcs/box, 50boxes/ctn	38*18*16	14

Color Frosted Microscope Slides							
	Code	Material	Dimension (mm)	Thickness (mm)	Packing	Carton Size (cm)	Weight (kg)
	TYI-7109B	Color frosted one end on one side, ground edges, blue	25,4*76.2 (1" * 3")	1-1.2	50pcs/box, 50boxes/ctn	38*18*16	14
	TYI-7109G	Color frosted one end on one side, ground edges, 45°/90° angle, green	25,4*76.2 (1" * 3")	1-1.2	50pcs/box, 50boxes/ctn	38*18*16	14
	TYI-7109O	Color frosted one end on one side, ground edges, 45°/90° angle, orange	25,4*76.2 (1" * 3")	1-1.2	50pcs/box, 50boxes/ctn	38*18*16	14
	TYI-7109P	Color frosted one end on one side, ground edges, 45°/90° angle, pink	25,4*76.2 (1" * 3")	1-1.2	50pcs/box, 50boxes/ctn	38*18*16	14
	TYI-7109W	Color frosted one end on one side, ground edges, 45°/90° angle, white	25,4*76.2 (1" * 3")	1-1.2	50pcs/box, 50boxes/ctn	38*18*16	14
	TYI-7109Y	Color frosted one end on one side, ground edges, 45°/90° angle, yellow	25,4*76.2 (1" * 3")	1-1.2	50pcs/box, 50boxes/ctn	38*18*16	14