

# **Hwoyee**

**THE LARGEST MANUFACTURER  
OF METEOROLOGICAL  
BALLOON IN CHINA!**



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## Company Profile

Zhuzhou Rubber Research & Design Institute Co., Ltd. of Chemchina is a specialized research institute and the largest manufacturer of meteorological balloon in China (Brand: HWOYEE). Since 1964, we've been dedicating to improve performance of our balloons to ensure all of our products can pass tests of the Chemical Industry Latex Products Quality Supervision and Testing Center, which is a national specialized inspection institute authorized by the China National Accreditation Board for Laboratories (CNACL).

Appointed by Standardization Administration of The People's Republic of China, our institute was the official drafter for ISO/CD 17717 International Standard --- Meteorological Balloons Specification, so far, this project has entered into CD stage and is waiting for voting and approval in the next International standard conference.

For years, as the designated supplier of CMA (China Meteorological Administration) and China Army Meteorological Services, HWOYEE meteorological balloon showed good quality and excellent performance under various weather conditions and in different regions, and has been granted with numerous national awards. Relying on high quality, prompt delivery, perfect after-sale services and professional technical supports, our balloons have gained concerns from all over the world, until now, HWOYEE balloon has been exported to more than 30 countries as Russia, USA, Argentina, UK, Italy, France, India, Turkey, Korea, Mexico, Malaysia, Indonesia, Vietnam and Mongolia, Ukraine, Chile and South Africa, etc.

High quality is the premise and guarantee to win the market, by adhering to standards of GB/T19001-2000 (idt ISO9001:2000) and supported by our state-of-art equipments and technologies, HWOYEE meteorological balloon will sure be the best choice of you!



## Product Introduction

Hwoyee meteorological balloon is made from natural rubber latex compound with various of additives which can highly improve its resistance to high & low temperature, oxidation and ozone. By making use of the most advanced technology and modernized equipments, our principle is to provide balloons with the highest quality for customers. Hwoyee meteorological balloon includes pilot balloon, ceiling balloon and sounding balloon with sizes from 10g to 3000g. For detailed product information, please see our specification list as below:



Balloon Type	Spec	Weight(g)	Neck Length (cm)	Neck Diameter (cm)	Bursting Diameter (mm)	Average Bursting Altitude (km)	Color	Average Rate of Ascent (m/min)
Ceiling & Pilot Balloon	HY-10	10 <sup>-4</sup>	6.0±1.0	2.2±0.3	≥700	8	Red, Black or Natural	200
	HY-30	30 <sup>-6</sup>	8.0±1.0	2.8±0.3	≥1100	11		
	HY-50	50 <sup>-10</sup>	8.0±1.0	2.9±0.3	≥1250	13		
	HY-100	100 <sup>-18</sup>	9.0±1.0	3.0±0.3	≥2000	16		
	HY-140	140 <sup>-20</sup>	9.0±1.0	3.1±0.3	≥2000	17		
Sounding Balloon	HY-200	200 <sup>-20</sup>	12.0±2.0	3.5±0.3	≥2970	18	Natural	≥340
	HY-300	300 <sup>-20</sup>	12.0±2.0	4.3±0.3	≥4300	19		
	HY-350	350 <sup>-20</sup>	12.0±2.0	4.4±0.3	≥4800	21		
	HY-500	500 <sup>-40</sup>	12.0±2.0	5.1±0.3	≥5800	26		
	HY-600	600 <sup>-40</sup>	12.0±2.0	5.4±0.3	≥6500	27		
	HY-750	750 <sup>-40</sup>	13.0±2.0	5.4±0.3	≥6900	28		
	HY-800	800 <sup>-50</sup>	13.0±2.0	5.7±0.3	≥7000	30		
	HY-1000	1000 <sup>-50</sup>	13.0±2.0	5.9±0.3	≥8000	32		
	HY-1200	1200 <sup>-50</sup>	14.0±2.0	6.0±0.3	≥9100	33		
	HY-1600	1600 <sup>-50</sup>	14.0±2.0	7.8±0.4	≥10000	36		
	HY-2000	2000 <sup>-50</sup>	14.0±2.0	7.9±0.4	≥10000	38		
HY-3000	3000 <sup>-50</sup>	14.0±2.0	8.0±0.4	≥12000	40			

# GCOS

Since 2005, we've been dedicating to research and development of 1600g meteorological balloon specialized for Global Climate Observing System (GCOS). Until now, we've made great achievements on this project, according to data gathered from eight GCOS stations in China, the percentage of 1600g balloon with average bursting altitude reaching to 38000m accounts for 50%, 36000m is above 80% and > 30000m is 100%. If you want further info on this new-type balloon, pls just contact us via sales@hwoyee.com.



## Small Neck Balloon

To meet needs of wider customers, our company is dedicating to developing a new-type balloon with Small neck. Currently, we've realized some achievements on this project, we welcome customers who want Small neck balloon to send email to inquire this balloon.

# Certificates

Our company is the only manufacturer of meteorological balloon authorized by CMA (China Meteorological Administration), each year, we supply about 100,000pcs meteo balloons to more than 120 sounding stations in China. In addition, we are also the designated supplier of China army meteorological services with annual sales volume to more than 700,000pcs balloons. Those certificates below are issued by CMA and arm services, to prove that our company has the production permit to produce high-quality meteorological balloons.



● Laboratory Accreditation Certificate



● ISO Quality Certificate



● Production certificate issued by CMA for 30g balloon



● Production certificate issued by CMA for 300g balloon



● Production certificate issued by CMA for 750g balloon

## Technical Strength

### Product Testing Equipments

Quality is the first priority! With the largest testing center for latex products in China, we can ensure our products meet the most stringent industrial standards. The following testing equipments are imported directly from abroad with the highest accuracy. Before leaving factory, each balloon will be carefully inspected by our professional inspectors, our purpose is to ensure 100% pass rate!



● Tensile Test Machine



● Ozone Aging Test Machine



● Oven Aging Test Machine



● Raw Material Inspection



● High-low Temp Test Machine

## The 8th WMO Intercomparison of High Quality Radiosonde Systems

In the 8th WMO Intercomparison of High Quality Radiosonde Systems hold in Yangjiang of China (July 2010), HWOYEE was designated by WMO and CMA as the only provider of meteorological balloons for this intercomparison. This event was conducted under tropical /subtropical moist conditions, however, our balloons showed good performance, in the conclusion of WMO report on this event, it highly appraised HWOYEE balloon's quality." In conclusion, the good quality of 2000g balloon, as well as double-balloon method, which can provide high burst height and suitable ascent rate, has ensured the success of Yangjiang intercomparison." (Page 49 of WMO report)



## Market Distribution

