

KAYMONT

BALLOON BLEND COMPARISON - OVERVIEW

Kaymont natural latex weather balloons are the global gold standard for quality, performance and reliability. Sustainably produced, carefully manufactured and meticulously inspected, our balloons meet their performance specifications over 99.9% of the time. This document should help you to determine the right balloon blend to purchase to accomplish your launch goals.

STANDARD (KCI, HAB)

Reliable - Versatile - Consistent - Robust

Our standard balloons are ideal for almost all applications, and should be your first and default choice when determining the right balloon for your launch goals.

Key Features:

- Designed for Heavy & Lightweight Payloads Alike
- Highly Reliable, Consistent and Predictable
- Ideal Ascent Rate: 5 m/s, Range: 3-8 m/s Flexible
- Biodegradability: 100% Within 24-36 Months
- Model Availability: 20g - 4000g

Recommended Applications:

- Traditional Weather Forecasting
- Atmospheric Research
- High Altitude Photography/ Videography
- Extended Duration Flights
- Ballast / Valve Integration, Multi-Vertical Profile

TX SERIES (KCI-TX, HAB-TX)

Performance - Focused - Resistant - Consistent

TX Series balloons are high modulus, high performance balloons focused on superior burst altitude in extreme atmospheric environments. Designed to shed moisture as they rise and retain maximum internal volume capacity, TX balloons usually reach the upper 15th percentile of their respective standard balloon's burst window. TX balloons offer unparalleled performance in the equatorial tropopause, the highest and coldest part of the Earth's stratospheric boundary.

Key Features:

- High Modulus (Deformation Resistance)
- Designed to Shed Atmospheric Moisture
- Extreme Cold Temp/ Freezing Resistance
- Ideal Ascent Rate: 5 m/s, Range: 4-6 m/s Strict
- Simultaneous Shattering Burst Pattern
- Biodegradability: 100% Within 24-36 Months
- Model Availability: 600g - 4000g

Recommended Applications:

- Ozone Layer Research
- Soundings from the Equatorial Tropics
- Soundings from Arctic Regions
- Soundings in High Humidity Environments
- Ultra High Altitude Photography/ Videography
- Single Vertical Soundings (Goal: Max Altitude)
- Some Long Term Flight Ballast Systems

CR SERIES (KCI-CR)

Durable - Elastic - Static - Experimental

Our CR Series balloons include a chloroprene additive in the natural latex which substantially increases resistance to UV light and promotes elasticity. Ideal for tethered aerostats, outdoor display and some long term flights. Chloroprene is the raw synthetic polymer used to create neoprene rubber.

Key Features:

- High UV Resistance
- High Elasticity, Low Modulus
- Model Availability: 600g - 4000g

Recommended Applications:

- Tethered/ Aerostat Operations
- Multi-Day Outdoor Display (Not Permanent)
- Experimental Long Term Flights