USE AEROTECH High-Power Rocket Motors only in high-power rockets designed and built for motors in the world. AEROTECH motors use the same propellant as America’s space boosters. Pound for pound, this propellant delivers nearly 3 times the power of black powder used in other high-power rocket motors. AEROTECH High-Power Rocket Motors allow you to fly larger rockets, heavier payloads, and achieve higher altitudes.

### General Information

AEROTECH High-Power Rocket Motors are the most technically advanced high-power rocket motors in the world. AEROTECH motors use the same propellant as America’s space boosters. Pound for pound, this propellant delivers nearly 3 times the power of black powder used in other high-power rocket motors. AEROTECH High-Power Rocket Motors allow you to fly larger rockets, heavier payloads, and achieve higher altitudes.

#### Motor Classification

Each AEROTECH High-Power Rocket Motor is identified with a code (e.g. H32-10J), which provides important information about the motor’s performance. The first letter indicates the motor’s diameter in inches. The second letter indicates the motor’s average thrust-to-weight ratio. The third letter indicates the motor’s type.

#### Motor Performance Data

The following table provides a summary of the motor’s performance data:

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>Total Impulse</th>
<th>Equivalent Motor Type</th>
<th>Minimum Safe Distance</th>
<th>Equivalent Motor Type</th>
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</table>

### Ignition and Launching

1. Insert the igniter into the igniter clip. Use the igniter to activate the igniter. Secure the igniter to the motor nozzle with solder or tape. Do not use an igniter that is not intended for use with AEROTECH High-Power Rocket Motors.

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### Safety and Handling

Store AEROTECH High-Power Rocket Motors in a dry place where the temperature will not exceed 40°F (4°C) or 104°F (40°C). Do not store AEROTECH High-Power Rocket Motors in a location where they could be exposed to moisture or water. Do not store AEROTECH High-Power Rocket Motors in a location where they could be exposed to extreme temperatures. Do not store AEROTECH High-Power Rocket Motors in a location where they could be exposed to strong light or direct sunlight.

### Use

Use AEROTECH High-Power Rocket Motors only in high-power rockets designed and built for them. Do not use AEROTECH High-Power Rocket Motors in low-power rockets. Do not use AEROTECH High-Power Rocket Motors in rockets that are not designed for motors of this type.

### Motor Safety Code

The Motor Safety Code (e.g. H32-10J) provides important information about the motor’s performance. The first letter indicates the motor’s diameter in inches. The second letter indicates the motor’s average thrust-to-weight ratio. The third letter indicates the motor’s type.

### Motor Parts

Each AEROTECH High-Power Rocket Motor is identified with a code (e.g. H124-10J) which gives important information about the motor’s performance. The first letter indicates the motor’s diameter in inches. The second letter indicates the motor’s average thrust-to-weight ratio. The third letter indicates the motor’s type.

### Launching

5. Before each flying session, make sure that all parts of the launch pad are in position and that the launch pad is stable.

6. Slide the rocket onto the rod or rail of your launch pad. High-power rocket motors powered by AEROTECH High-Power Rocket Motors must be mounted on a launch pad having a rod or rail at least 60 inches long to ensure proper engagement with the rod or rail. This is necessary to prevent injury to the person launching the rocket.

### Fire Safety

Controlled tests show that AEROTECH High-Power Rocket Motors will not explode in fires and can be extinguished easily, as long as the fires are extinguished within two minutes. Use water or a fire extinguisher to extinguish the fires. Do not use an extinguisher that is not intended for use with AEROTECH High-Power Rocket Motors.

### Ignition System

A person operating a high-power rocket shall have an ignition system that is remote-controlled. The ignition system shall be a stand-alone unit that is not attached to the rocket. The ignition system shall be a stand-alone unit that is not attached to the rocket. The ignition system shall be a stand-alone unit that is not attached to the rocket.

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### Minimum Safe Distance

The minimum safe distance for high-power rockets powered by AEROTECH High-Power Rocket Motors is determined by the type of rocket and the motor used. The minimum safe distance is the distance at which the rocket will land and the motor will be extinguished.

### Launch Site Dimensions

The launch site dimensions are determined by the type of rocket and the motor used. The minimum safe distance is the distance at which the rocket will land and the motor will be extinguished.

### Maximum Lift-off Weight

The maximum lift-off weight is a recommendation and is provided as a general guideline to avoid exceeding the maximum lift-off weight specified in the launch pad’s operating instructions. The maximum lift-off weight is the maximum weight that can be safely launched without causing damage to the launch pad or the rocket. The maximum lift-off weight is determined by the type of rocket and the motor used.

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