

Springfield Echelon Multi-Ammo Chronograph Report

4.5-inch barrel (not comped or ported)
124-grain ammunition

Abbreviations:

FPS = Feet Per Second

SD = Standard Deviation

PF = Power Factor

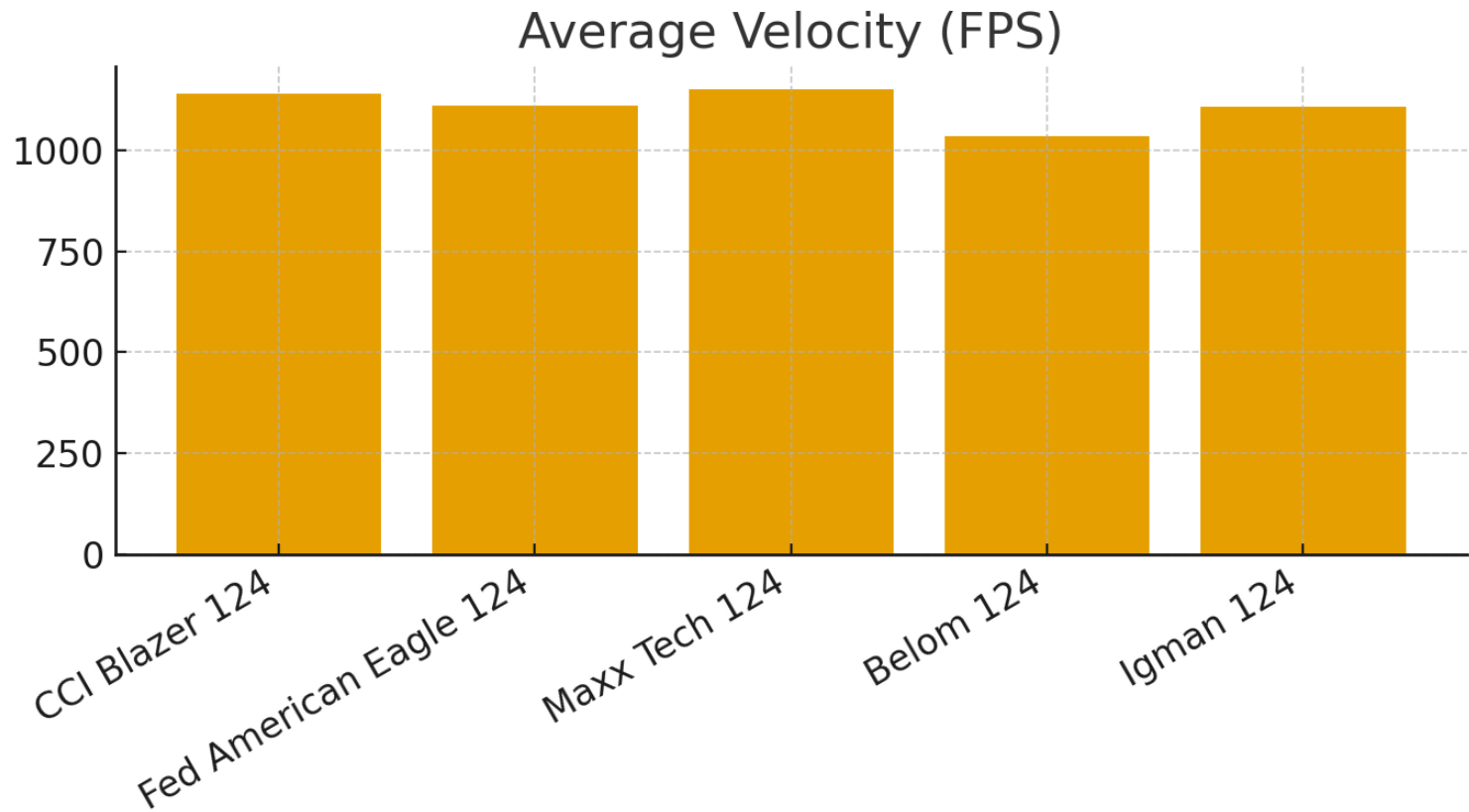
KE = Kinetic Energy

ES = Extreme Spread

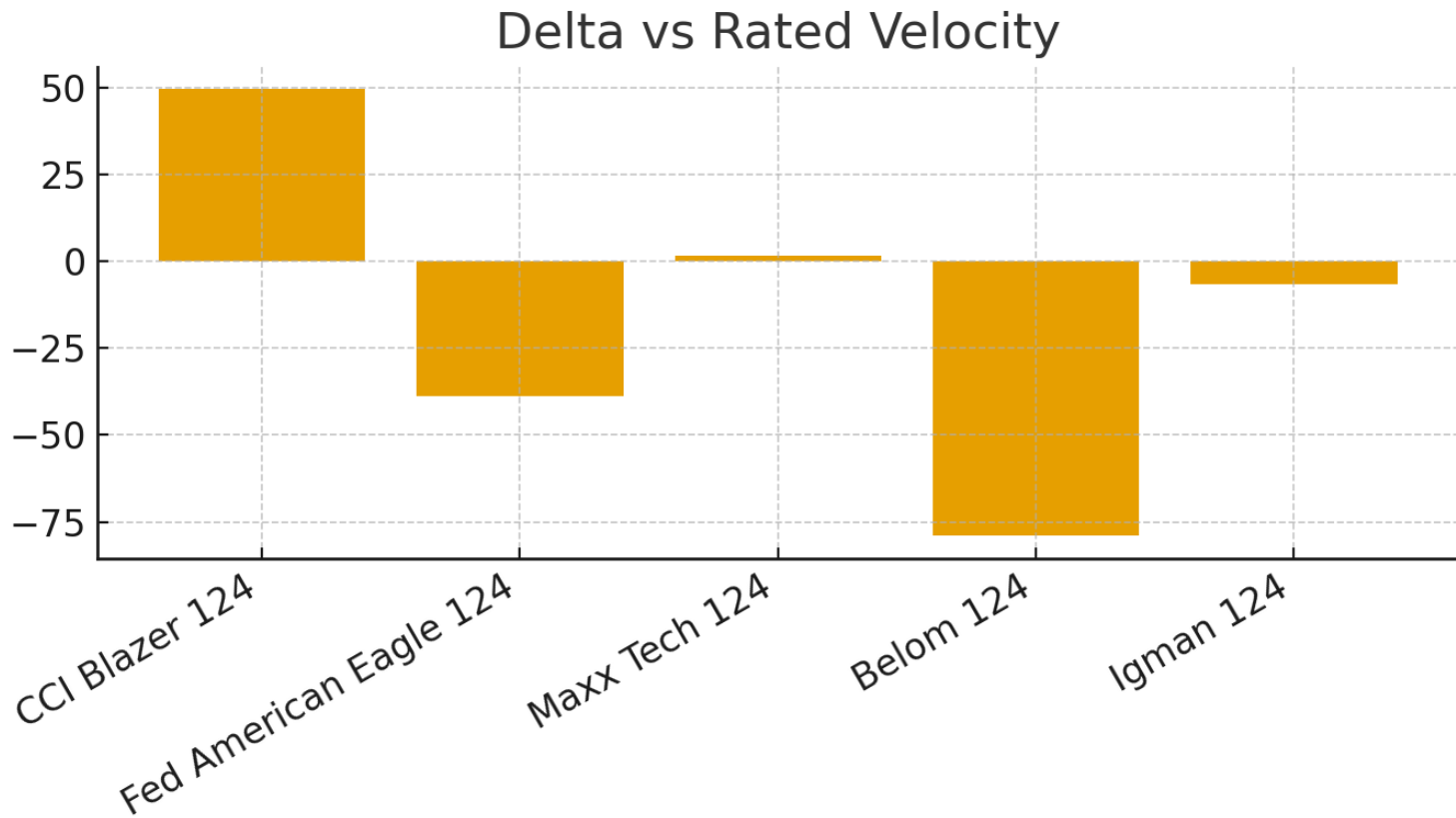
Ammunition Tested

- CCI Blazer 124 (Rated 1090 FPS)
- Federal American Eagle 124 (Rated 1150 FPS)
- MaxxTech 124 (Rated 1150 FPS)
- Belom 124 (Rated 1115 FPS)
- Igman 124 (Rated 1115 FPS)

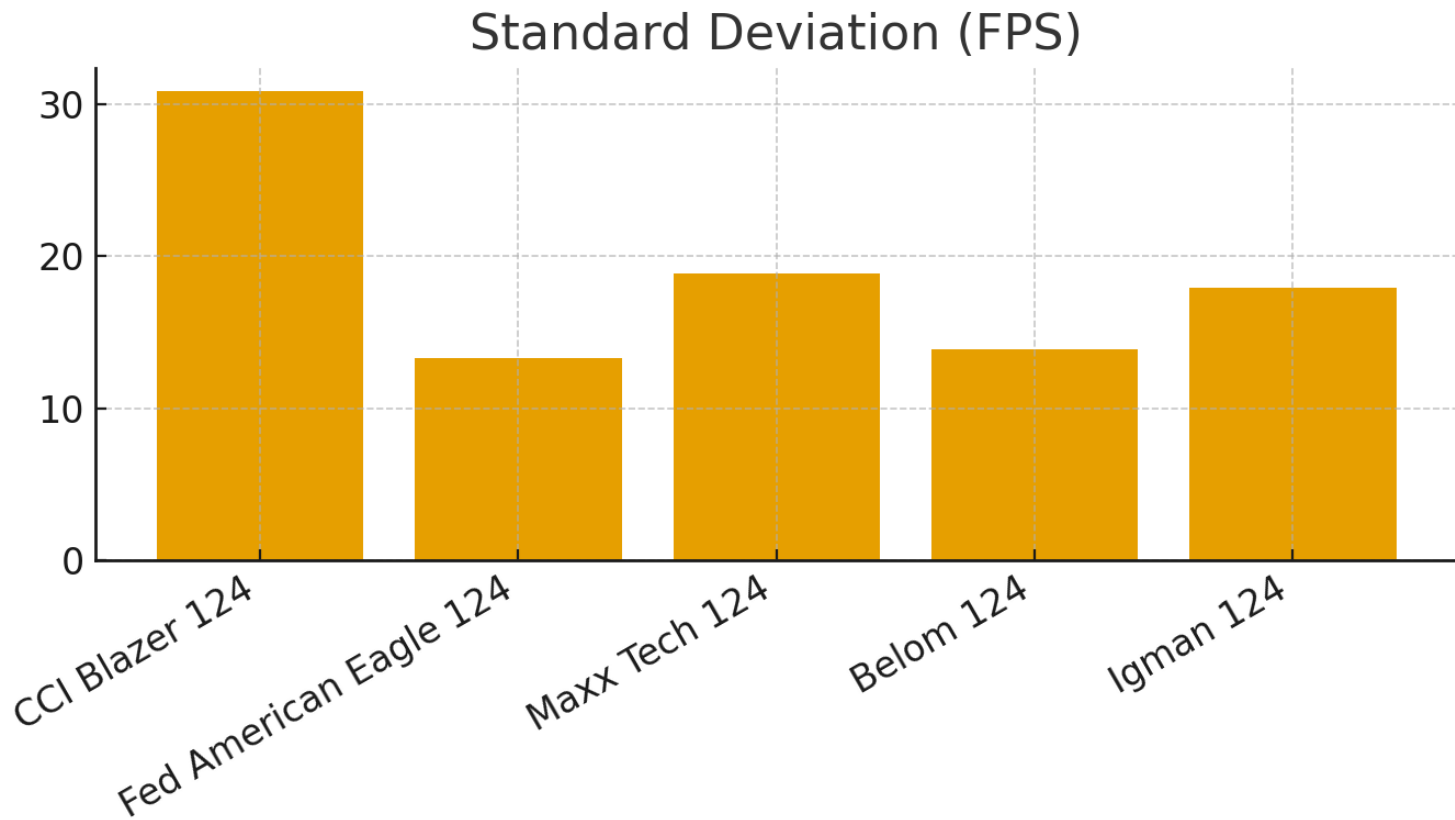
Average Velocity



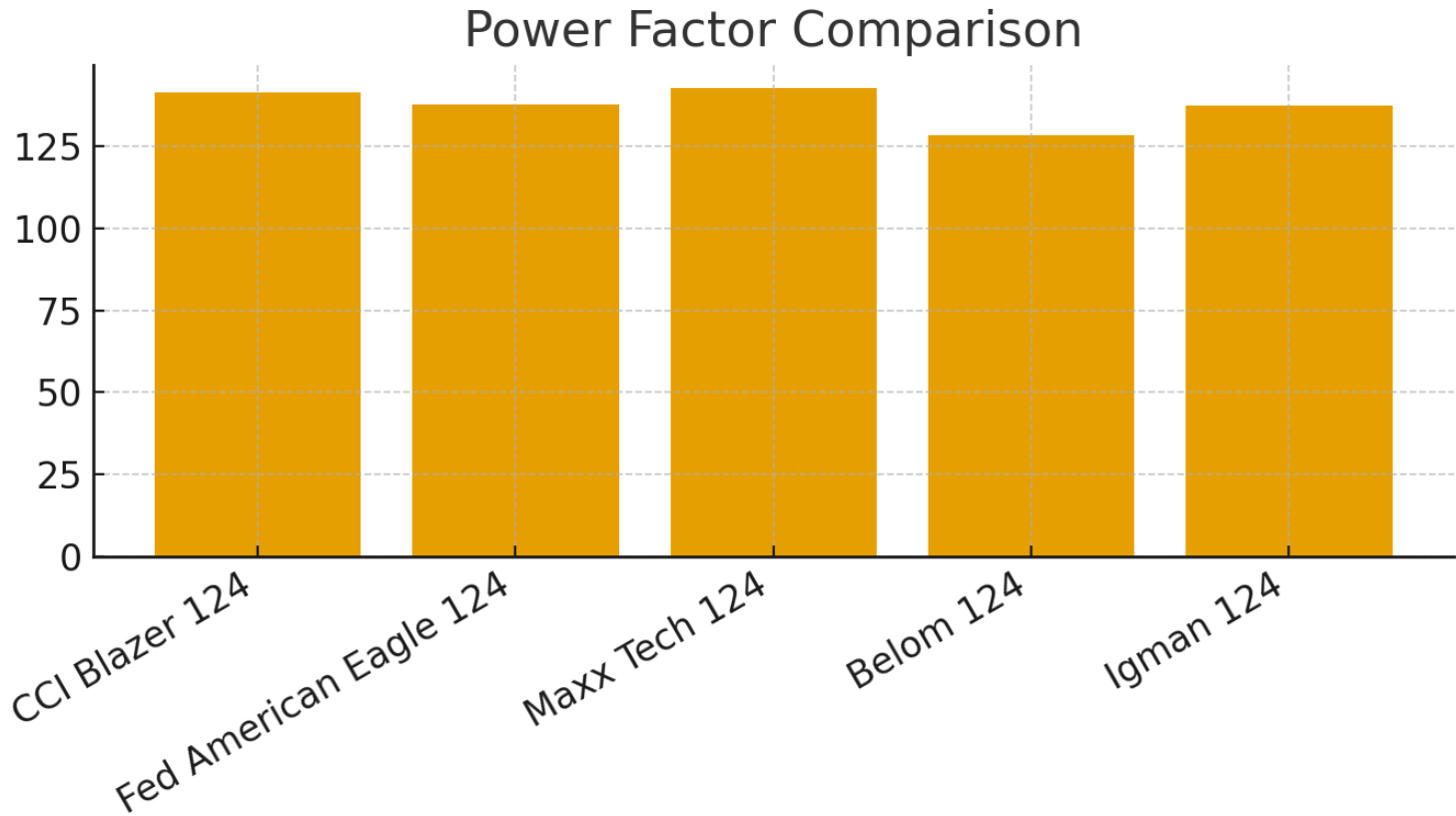
Delta vs Rated



Standard Deviation



Power Factor Comparison



Key Observations

- **Fastest Load:** MaxxTech 124
- **Most Consistent:** Fed American Eagle 124
- **Closest to Rated Velocity:** MaxxTech 124
- Belom is the softest-shooting but highly consistent
- MaxxTech delivers the highest PF and KE with strong consistency
- Federal AE shows excellent SD for accuracy-focused shooting

Average Velocity & Consistency

- **Fastest load:**
MaxxTech 124 at ~**1151.5 FPS**
- **Slowest load:**
Belom 124 at ~**1036.0 FPS**
- **Most consistent (lowest SD):**
Federal AE 124 (SD ~**13.3 FPS**)
Close second: **Belom 124** (SD ~**13.9 FPS**)

Ammo	Rated FPS	Avg FPS (chrono)	Min	Max	SD (FPS)	ES (FPS)
CCI Blazer 124	1090	1139.6	1032.5	1187.7	30.9	155.2
Federal AE 124	1150	1111.2	1085.3	1140.7	13.3	55.4
MaxxTech 124	1150	1151.5	1101.0	1175.5	18.9	74.5
Belom 124	1115	1036.0	1008.9	1061.4	13.9	52.5
Igman 124	1115	1108.3	1077.1	1149.9	17.9	72.8

Power Factor & Energy (Echelon, real-world data)

- **Highest Power Factor & Energy:**
MaxxTech 124 – strongest overall in your gun.
- **Lowest Power Factor & Energy:**
Belom 124 – clearly softer shooting.

Ammo	Avg PF	Avg KE (ft-lbs)
CCI Blazer 124	141.3	357.8
Federal AE 124	137.8	340.0
MaxxTech 124	142.8	365.1
Belom 124	128.5	295.6
Igman 124	137.4	338.2

How Each Load Performs vs. Rated Velocity

Using the manufacturer ratings

Ammo	Rated FPS	Avg FPS	Delta vs Rated	% Difference
CCI Blazer 124	1090	1139.6	+49.6	+4.6%
Federal AE 124	1150	1111.2	-38.8	-3.4%
MaxxTech 124	1150	1151.5	+1.5	+0.1%
Belom 124	1115	1036.0	-79.0	-7.1%
Igman 124	1115	1108.3	-6.7	-0.6%

Quick takeaways for the Echelon:

CCI Blazer 124

- Runs **hotter than advertised** by ~50 FPS.
- Good energy & PF, but SD and extreme spread are on the higher side → a bit more velocity variance.

•Federal American Eagle 124

- **Underspeeds** rating by ~39 FPS.
- However, it's **very consistent** (low SD) and still has solid PF/energy. Nice “control + consistency” load.

•MaxxTech 124

- Almost **perfect match** to factory rating (+1.5 FPS — essentially right on the nose).
- Highest PF and KE, while maintaining reasonable SD → strong choice if you want full-power performance aligned with spec.

•Belom 124

- Significantly **slower** than rated (~79 FPS under).
- Very soft shooting, low PF, but also **quite consistent** (low SD and ES).
- Might feel like “light target” ammo in this gun.

•Igman 124

- Slightly under rating (~6–7 FPS), but essentially on target.
- Solid PF and energy, decent consistency; sits between AE and Blazer in “feel.”

Practical Recommendations (What Each Load Is Good For)

If you care about match-style consistency

Focus on:

- **Federal AE 124**

- **Belom 124**

Both show low SD and a manageable extreme spread. Federal brings a bit more energy; Belom is the “softest but consistent” option.

If you want full-power practice close to defensive loads

Focus on:

- **MaxxTech 124** – your top pick here

- **CCI Blazer 124**

- **Igman 124**

All are reasonably flat-shooting and energetic. MaxxTech leads on PF and energy, with decent SD; Blazer runs hot and energetic but with more spread; Igman is a nice middle ground.

If you're chasing soft recoil and comfort

- **Belom 124** is the standout: noticeably below rating, lowest energy, but nicely consistent. Great for long sessions if it cycles reliably and prints well on target for you.