

Elegance Unleashed: The FR-0511 Black Blade Crystal Acrylic Handle Switchblade

Envision a blade that's not just a tool, but an extension of one's personal style, a statement piece that combines lethal grace with a piercing presence. Shieldon's FR-0511 [OEM folding knife](#) presents a marvel of design and functionality that demands attention. This purchase description unfolds the intricate details and specifications of this robust and sophisticated cutting companion, a perfect addition to any collection or product lineup.



Dynamic Design and Premium Construction

The FR-0511 is not just any folding knife; it is a symphony of premium materials and engineering excellence. Highlighted by a dramatic long black blade forged from 3Cr13 steel, this knife offers durability and practical performance. The blade material, known for its robustness and ease of sharpening, features a hardness rating of 50-52 HRC, ensuring a balance between edge retention and toughness.

Complementing the formidable blade is the knife's most striking feature: a handle that boasts a combination of 2Cr13 stainless steel and radiant crystal acrylic. This exquisite handle not only provides a secure grip but also showcases a translucent jade color that mimics the allure of precious stone. The handle's acrylic element refracts light, creating a stunning visual effect that's as captivating as it is elegant.

Optimal Dimensions for Superior Performance

The blade, with a thickness of 0.11 inches (2.8mm), is meticulously crafted to provide a balance of strength and precision. At an extended length of 5.98 inches (152mm), the bayonet-style blade delivers ample surface for a variety of cutting tasks while maintaining a sleek profile.

When fully deployed, the FR-0511 reaches an overall length of 13.03 inches (331mm), offering significant leverage and control. The handle, measuring 0.642 inches (16.3mm) in thickness,



provides a substantial feel in hand, ensuring confidence during use. Despite its robust build, the knife maintains a manageable weight of 7.43 ounces (210.5g), striking an ideal balance between heft and maneuverability.



Distinctive Blade Style and Finish

The bayonet blade style is steeped in history, evoking imagery of classic military weaponry now reimagined for the modern user. The spike grind adds a unique aesthetic while serving a functional purpose, enhancing the knife's thrusting capabilities. A blackened finish not only

protects the steel from the elements but also lends the blade an air of mystery and tactical sophistication.

Advanced Features and Custom Options

The FR-0511 comes equipped with a practical tip-up pocket clip, facilitating easy and discreet carry. The liner lock mechanism, a staple of reliability, secures the blade firmly in place during use, ensuring user safety and blade stability.

Operated by a flipper, the knife can be quickly and effortlessly opened. Additionally, the option to include an assist-spring in the pivot is available, providing a lightning-fast automatic deployment that will impress both enthusiasts and everyday users alike.

Ideal for OEM Projects and Product Lines

With a regular Minimum Order Quantity (MOQ) of 1200, the FR-0511 is an exceptional choice for brands seeking to enhance their product offerings with a high-quality, stylish automatic knife. Sheldon's dedicated Manufacturing & Trading Combo business model ensures that each knife is crafted to the highest standards, reflecting your brand's commitment to excellence.



Shieldon's Commitment to Quality and Partnership

As a trusted partner in the knife manufacturing industry, Shieldon brings 25 years of experience and expertise to the table. We understand that the selection of a suitable OEM product is a critical decision for your business. That's why we dedicate ourselves to providing you with top-tier products that align with your brand's vision and market demands.

Seamless Integration into Your Business

Integrating the FR-0511 into your lineup is seamless, thanks to Shieldon's expert team that supports you every step of the way—from initial design tweaks to final delivery. We offer comprehensive services, ensuring that the final product exceeds your expectations and resonates with your target audience.

Conclusion: A Knife That Stands Apart

The FR-0511 folding knife is not merely a tool; it's a work of art that combines the practical needs of a cutting instrument with the aesthetic demands of modern sophistication. With its long black blade, crystal acrylic handle, and a suite of features designed for convenience and performance, this knife is poised to become the centerpiece of any collection.





As a trusted OEM partner, Shieldon is committed to bringing your vision to life, ensuring that each FR-0511 knife is a testament to your brand's quality and craftsmanship. Choose Shieldon, and embrace the elegance and strength that the FR-0511 has to offer, ensuring that your customers have access to a knife that's not just useful, but truly unforgettable.

Cutting Edge Essentials: Understanding Steel Types in Folding Knife Production

The heart of any folding knife is the blade, and the soul of that blade lies in its steel. A folding knife can be a trusty companion for outdoor adventures, a reliable tool for everyday tasks, or a cherished item in a collector's showcase. But what makes one knife different from another often comes down to the type of steel used in its production. This guide will provide you with foundational knowledge of the most commonly used steels in folding knife production, helping you choose the perfect blade for your needs.



Stainless Steel: The Popular Choice

Stainless steel is one of the most prevalent materials used in the production of folding knives due to its resistance to rust and corrosion. This category includes a wide range of steel types, each with different properties:

- **420HC (High Carbon):** This is a higher carbon version of standard 420 stainless steel, which allows for better edge retention and is easy to sharpen. It is often used in budget-friendly knives.
- **AUS-8:** A Japanese steel with a good balance between toughness, edge sharpness, and corrosion resistance. It sharpens easily and is often found in mid-range knives.

- **440C:** Once considered the high-end in stainless steel for folding knives, 440C offers excellent hardness and resistance to corrosion, with fairly good edge retention.

High-Carbon Steels: For The Sharpest Edges

High-carbon steel knives are known for their ability to retain a sharp edge. The higher carbon content allows the blade to be hardened well beyond that of stainless steel, which results in superior edge retention. However, without proper care, these steels are more prone to rust.

Some commonly used high-carbon steels are:

- **1095:** A simple, durable steel that holds an excellent edge and is relatively easy to resharpen. However, it lacks corrosion resistance.
- **D2:** Often referred to as "semi-stainless," D2 is a high-carbon tool steel that straddles the line between stainless and carbon steels. It offers great hardness and edge retention but is more challenging to sharpen.

Tool Steels: Tough and Durable

Tool steels are designed for durability and are frequently used in folding knives that are expected to withstand heavy use. These steels are typically very hard, offering excellent wear resistance:

- **CPM S30V:** It's a premium steel designed specifically for knives. It boasts superior edge retention, toughness, and resistance to corrosion.
- **M4:** This steel is known for its high resistance to wear and abrasion, making it ideal for heavy-duty use. It is, however, harder to sharpen and requires some care to prevent rust.

Damascus Steel: Beauty and Function

Damascus steel is more of a technique than a type of steel, involving the folding and forging of different grades of steel together. This creates distinctive patterns that make each Damascus blade unique:

- **Pattern-Welded:** The most common type of Damascus, where different types of stainless or carbon steels are welded, folded, and acid-etched to reveal a unique pattern.



Specialty and Proprietary Steels: The Cutting Edge of Innovation

Many knife manufacturers have developed their own proprietary steel blends to maximize performance. These often offer unique combinations of hardness, toughness, and corrosion resistance:

- **CPM S110V:** Known for its exceptional edge retention due to a high volume of vanadium carbides in the steel.
- **VG10:** A high-end Japanese steel with an excellent reputation for sharpness, durability, and rust resistance.

Conclusion: Finding Your Perfect Steel

Understanding the type of steel used in a [folding knife](#) is crucial when selecting a blade that will meet your needs. Whether you require a knife that maintains a sharp edge for intricate cutting tasks, a rugged blade that stands up to the elements, or a stunning piece of craftsmanship that turns heads, there's a steel type that fits the bill.





Remember, the best folding knife is one that balances the qualities of the steel with the intended use. A knife designed for everyday carry may prioritize corrosion resistance and ease of sharpening, while a collector's piece might feature intricate Damascus patterns. By acquainting yourself with the basic types of steel used in folding knife production, you're well on your way to making an informed choice and understanding the value of the blade you select.