

Precision Meets Practicality: The OEM LS-2566 Folding Knife by Sheldon

Introducing the LS-2566 Folding Knife – a pinnacle of practical design and robust functionality, brought to you by Sheldon, the name synonymous with unparalleled quality in the [Manufacturing](#) & Trading Combo business sector. The LS-2566 isn't just a cutting tool; it's a testament to the precision engineering and custom craftsmanship that Sheldon prides itself on delivering to outdoor enthusiasts and everyday carry (EDC) aficionados alike.



Product Description

The OEM LS-2566 Folding Knife is a compact, yet powerful ally for any task that requires a sharp blade and steady hand. From the campsite to the workshop, this is a knife designed to perform with excellence no matter the conditions or challenges it faces.

Blade Excellence: Durable and Dependable

At the heart of the LS-2566 lies its formidable blade, crafted from the robust 3Cr13 stainless steel – a material chosen for its balance of hardness and corrosion resistance. The blade carries an HRC (Hardness Rockwell C) rating of 50-52, promising durability without compromising on sharpness. With a thickness of 0.091 inches (2.3mm) and a length of 2.87 inches (73mm), this drop point blade is engineered for precision cutting and versatile use.

The blackened finish not only adds a sleek aesthetic but also increases the blade's resistance to wear and tear. Whether you're slicing through rope or filleting your catch of the day, the flat grind of the LS-2566 ensures a sharp, consistent edge ready for a wide array of cutting tasks.

Handle Precision: Ergonomic and Stylish



Complementing the blade is the handle made from aluminum, coated to perfection, offering a lightweight yet sturdy grip. The black color of the handle is not only timeless but also practical, concealing scratches and reducing the visibility of wear. The thickness of the handle is a comfortable 0.441 inches (11mm), providing an ergonomic hold that makes prolonged use a non-issue.



Lock Mechanism: Safe and Secure

Safety is paramount with any knife, and the LS-2566 comes equipped with a reliable liner lock mechanism. The liner lock ensures the blade stays open while in use and is easy to disengage when it's time to stow the knife away.

Open Way: Quick and Convenient

Users will appreciate the dual opening options – a flipper and thumb stud. These features provide a quick and convenient way to deploy the blade single-handedly, making the LS-2566 a true EDC knife.

Pocket Clip: Carry with Ease

The inclusion of a tip-down pocket clip means the LS-2566 is always within reach. This clip design ensures that the knife rides low in the pocket for discreet carry, yet remains easily accessible when you need it.

Overall Build: Balanced and Built to Last

The overall length of the LS-2566, when opened, is a comfortable 6.38 inches (162mm), making it a knife that's substantial enough to handle demanding tasks but still compact enough to



carry all day without being cumbersome. The weight is an impressively light 2.42 oz (68.5g), striking the perfect balance between heft and lightness.

ODM and OEM Options: Tailored to Your Needs

Shieldon, as a leading provider in the field, offers both Original Design Manufacturing (ODM) and Original Equipment Manufacturer (OEM) services, with a regular Minimum Order Quantity (MOQ) of 1200 for the LS-2566. This folding knife, therefore, not only meets the high standards of quality Shieldon is known for but also provides the option for customization to fit your business needs.



Whether you're looking to brand the LS-2566 with your company logo, or you require a custom blade or handle design, Sheldon's team of experts is ready to bring your vision to life, ensuring that each knife is a reflection of your brand's commitment to quality.

Conclusion

The LS-2566 Folding Knife by Sheldon is a testament to the company's dedication to craftsmanship, utility, and customer satisfaction. Each knife is a blend of meticulous design,



high-quality materials, and thoughtful features that culminate in a product that's more than just a tool – it's a trusted companion for those who demand reliability and performance from their gear.

From the rugged outdoors to the demands of daily tasks, the LS-2566 stands ready to assist with assurance and style. Sheldon, with its comprehensive Manufacturing & Trading Combo business model, ensures that every step of the process, from design to delivery, is handled with the utmost professionalism and attention to detail.

Experience the convergence of durability, functionality, and intelligent design with the Sheldon LS-2566 Folding Knife – a piece of equipment that's poised to become an indispensable part of your product offering.

The Edge of Innovation: Understanding Folding Knife Steel Chemistry

The heart and soul of a folding knife lie in its blade – more specifically, in the steel from which that blade is forged. The quality, durability, and overall performance of a folding knife are intrinsically linked to the chemical composition of its steel. For the knife enthusiast or the casual user, possessing basic knowledge of folding knife steel is crucial to selecting the right knife for



your needs. Let's delve into the world of steel chemistry and understand what sets different steels apart in the crafting of folding knives.



Composition Matters: The Elements of Steel

At its core, steel is an alloy of iron and carbon. This simple combination is the foundation upon which all steel grades are built. However, the properties of steel can be vastly altered with the addition of other elements such as chromium, manganese, molybdenum, vanadium, and nickel. Here's how these elements affect the steel used in folding knives:

- **Carbon (C):** The primary hardening element. High carbon content increases hardness and strength but can reduce toughness.
- **Chromium (Cr):** Vital for corrosion resistance. A minimum of 12-14% chromium is required to make steel "stainless."
- **Manganese (Mn):** Increases hardenability and tensile strength, while also improving wear resistance.
- **Molybdenum (Mo):** Boosts strength and hardenability and helps maintain the steel's strength at high temperatures.
- **Vanadium (V):** Contributes to wear resistance and increases toughness.
- **Nickel (Ni):** Adds toughness and corrosion resistance.

Deciphering Steel Grades

Steel grades often come with alphanumeric codes that can tell you a lot about their composition and, consequently, their capabilities. For instance, 3Cr13 steel has approximately 0.3% carbon and 13% chromium. Higher-end steels, like VG10 or CPM-S30V, have more complex alloy recipes that provide superior edge retention, toughness, and rust resistance.

Common Folding Knife Steels

- **High Carbon Steels (e.g., 1095):** These are known for their ability to retain a sharp edge and are easy to sharpen. They're less resistant to corrosion, so they require more maintenance.
- **Stainless Steels (e.g., 420HC, 440C):** These steels have higher chromium content, offering excellent corrosion resistance. They are a popular choice for EDC (Every Day Carry) knives due to their balanced performance.
- **Tool Steels (e.g., D2):** These steels are characterized by their hardness and ability to hold an edge. They are more susceptible to rust but excel in cutting performance.
- **Premium Steels (e.g., CPM-S30V, CPM-S90V):** Designed using powder metallurgy, these steels offer an exceptional balance of edge retention, toughness, and corrosion resistance.

Heat Treatment: Bringing Out the Best

Understanding the chemical composition of a folding knife's steel is just part of the equation. Heat treatment—a process of heating and cooling the steel—plays a pivotal role in determining the final properties of the blade. A well-executed heat treatment can enhance the steel's natural strengths, such as hardness and durability, while mitigating its weaknesses.



Choosing the Right Steel

When selecting a folding knife, consider the following:

- **Environment:** If you're often in wet or marine environments, a stainless steel with high chromium content is advisable.
- **Usage:** For heavy-duty or abrasive tasks, a tool steel might be the best choice due to its wear resistance.
- **Maintenance:** If you prefer minimal maintenance, opt for a steel that offers a good balance of edge retention and corrosion resistance.
- **Price:** High-end steels often come at a higher cost. Balance your budget with the qualities that are most important to your knife usage.



Conclusion

The steel of a [folding knife](#) is more than just a material; it's a sophisticated blend of elements engineered to meet specific needs. Whether it's the high-carbon simplicity of a 1095 blade or the advanced alloy composition of a CPM-S90V, each type of steel offers a unique set of

characteristics. By understanding the chemistry behind folding knife steels, you are better equipped to make an informed decision when purchasing your next knife. The right choice will provide you with a reliable tool that excels in the performance you need, ensuring that your folding knife is not just a tool but a trusted companion for your adventures.