

# Vane Genuine Leather Executive Chair

## Material

If you disassemble an office chair, you will find that it is not a single product. Because it is composed of multiple components. Therefore, if we delve into the office chair, we will find that this is a very broad topic. On this page, we will discuss the various components of an office chair.

### Seats and Backrests

The seat and backrest are key to your comfort. Vane uses high-quality materials to provide superior seating feel and support.

#### • Vane Internal Filling Material

Inner layer: hot-pressed bending board

Middle layer: hard sponge

Outer layer: 25 KG/M3 high-density sponge

#### Detailed Answers :

( 一 ) Hot-pressed bending board and firm sponge are the most fundamental materials in the leather chair industry, used to provide durable support and exceptional stability to the chairs.

( 二 ) High-density sponge analysis :

#### Advantages:

1. Excellent resilience, quickly rebounds after compression.
2. Provides good elasticity and comfort, offering sufficient support and cushioning, resistant to deformation.
3. Conforms to changes in body weight.
4. Sound absorption, fire resistance, heat insulation, non-toxic, durable, shock absorption, lightweight, aging resistance.

#### Disadvantages:

1. Firmer feel when seated.
2. Relatively high cost.
3. Lower breathability.

## • Vane Surface Material

Front-facing human contact areas:

- Seat: Full-grain leather
- Backrest and inner sides of armrests: Top-grain cowhide

Back/sides:

- Genuine leather

## Detailed Answers :

### ( — ) Types and Grades Of Cowhide Leather

Cowhide leather, the most commonly used leather worldwide, is known for its durability, versatility, and high-quality finish. It is categorized into different types and grades based on the area of the cow from which the hide is sourced and the processing methods applied.

#### **1. Full Grain Leather**

This is the highest quality of cowhide leather. It's sourced from the top layer of the hide, including all the grain, hence the name. Full Grain Leather exhibits the natural markings and imperfections of the hide, making each piece unique. It's highly durable and ages beautifully.

#### **2. Top-grain cowhide**

Top Grain Leather is the second-highest grade, sourced from the top back portion of the cow. The hide's surface is sanded to remove imperfections, resulting in a more uniform appearance than full grain. Top Grain Leather is more flexible and easier to work with, but not as durable as Full Grain.

#### **3. Genuine Leather**

Also known as 'corrected grain' leather, Genuine Leather is made from the remaining layers of the hide after the top is split off for the higher grades. It's often treated, pigmented, and embossed to improve its appearance.

#### **4. Split Leather**

Split Leather is derived from the lower layers of the hide that are left after the top layers are split off. It lacks the natural grains and is less durable but is cheaper than higher grades.

#### **5. Bonded Leather**

The lowest grade of leather, Bonded Leather, is made by bonding together scraps of hide with adhesive. It's less durable and doesn't age well, but it's the most affordable type of leather.

( 二 ) Analysis of the advantages and disadvantages of cowhide :

**Advantages:**

1. Versatility: Cowhide leather is versatile and can be used in a variety of products such as shoes, clothes, upholstery, and accessories
2. Durability: Known for its elasticity and durability, cowhide leather products can withstand wear and tear over time
3. Variety: It comes in different types including bovine, buffalo, real cowhide, and bison, each with unique properties
4. Resilience: Hair-on cowhide leather is more water-resistant because the hair on the surface acts as a barrier. It can also be cleaned aggressively with various soaps and water, making it easily maintained.
5. Comfort: Despite its toughness, cowhide leather is flexible and becomes more comfortable with use.

**Disadvantages:**

1. Breathability: Cowhide leather is not as breathable as genuine leather, which means it can cause skin irritation.
2. Care: Despite its benefits, cowhide leather requires regular care to maintain its quality and appearance.
3. Cost: Some types of cowhide leather can be expensive.
4. Special Techniques: Hair-on cowhide leather may require alternative techniques for its processing and care.
5. Ethical Concerns: Some consumers may have ethical concerns about using animal products. While leather is a byproduct of the meat industry, these concerns can still influence purchasing decisions.
6. Limited Colors: Unlike synthetic materials, cowhide leather comes in a limited range of natural colors. Although it can be dyed, the process may affect the leather's texture and durability.

## Armrests

Solid wood armrests on executive office chairs combine natural beauty and quality, offering unmatched comfort and durability. They enhance visual appeal with elegant grain patterns and provide a pleasing tactile experience.

### • Vane Wood Selection :

- Walnut

### Detailed Answers :

( — ) Walnut wood is prized for its deep tones and elegant grain, making it a popular choice for crafting high-end furniture. Its natural beauty and stability make it the preferred option for designers and manufacturers alike.

( 二 ) Solid wood handrail advantages and disadvantages analysis :

#### Advantages:

1. Visual Appeal and Texture: Solid wood armrests typically feature natural wood grain and hues, imparting a sense of elegance and solidity that enhances the overall ambiance of office or home office spaces.
2. Durability: High-quality solid wood armrests are often highly durable, able to withstand daily use and the test of time without warping or damage.
3. Comfort: Solid wood armrests offer a warm touch, providing comfort in both winter and summer compared to metal or plastic materials.
4. Environmental Friendliness: Opting for armrests made from natural solid wood has minimal environmental impact as wood is a renewable resource, and the manufacturing process generates relatively little pollution.

#### Disadvantages:

1. Higher Cost: Solid wood armrests are typically more expensive to manufacture compared to plastic or metal counterparts, resulting in higher retail prices.
2. Maintenance Required: Solid wood armrests need regular maintenance such as applying wood furniture-specific oils or wax to prevent drying, discoloration, or damage.
3. Susceptibility to Environmental Factors: Solid wood armrests are significantly affected by environmental humidity and temperature; extremes can affect their longevity or appearance.

## Gas lift

An office chair gas lift, also known as a gas cylinder or pneumatic lift, is a mechanism that allows the height of the chair to be easily adjusted by using compressed gas. This feature provides a smooth and comfortable height adjustment, enhancing the ergonomic benefits of the chair.

- **Vane Gas lift Material**

- Aluminum alloy

- **Vane Gas lift Certification**

- SGS Certification

- BIFMA Certification

- ANSI/BIFMA X5.1 Certification

### Detailed Answers :

( 一 ) Compared to regular steel, aluminum alloy is lighter and more resistant to corrosion, making it commonly used in gas lifts for high-end office chairs.

( 二 ) Certification Introduction

1. **SGS Certification:** SGS is a world-leading inspection, verification, testing, and certification company. Gas lifts with SGS certification have undergone rigorous testing to ensure their quality and safety.

2. **BIFMA Certification:** BIFMA (Business and Institutional Furniture Manufacturers Association) certification is a globally recognized standard for furniture quality and safety. Gas lifts that meet BIFMA standards are proven to have durability and safety at an international level.

3. **ANSI/BIFMA X5.1 Certification:** This certification is a North American standard for the safety and durability of office chairs, applying to the quality and safety testing of office chairs and their components.

( 三 ) Advantages and Disadvantages of Gas Lifts:

### Advantages:

1. **Convenient Adjustment:** Gas lifts allow for easy height adjustment of chairs, enhancing user comfort and ergonomic support.

2. **Smooth Operation:** They provide a smooth, controlled lift and descent, ensuring a comfortable

user experience.

3. Durable Construction: High-quality gas lifts are typically made from strong materials like steel or aluminum alloy, ensuring longevity and reliability.

4. Versatility: Gas lifts can be adjusted to accommodate various desk heights and user preferences, making them versatile for different environments.

#### Disadvantages:

1. Maintenance Needs: They may require occasional maintenance or replacement if they develop leaks or fail to function properly.

2. Cost Considerations: Higher-quality gas lifts can be more expensive, adding to the overall cost of office chairs or furniture.

3. Temperature Sensitivity: Gas lifts may be affected by extreme temperatures, impacting their performance and durability over time.

## Base

The base of a chair, often overlooked yet crucial, serves as its foundation, providing stability and support. Whether crafted from robust steel for industrial durability or lightweight aluminum alloy for modern elegance, the base ensures the chair stands firm while accommodating diverse seating needs. Designed to withstand daily use, its multifaceted construction balances functionality with aesthetic appeal, enhancing both safety and style in any environment.

### • Vane Base Material

-Aluminum alloy

### • Vane Base Certification

-BIFMA Certification

-ANSI Certification

-ISO 9001 Quality Management System Certification

### Detailed Answers :

( — ) Aluminum alloy is renowned for its outstanding physical properties, being lightweight yet robust, capable of withstanding high pressures without deformation. Choosing this material not only ensures that the base remains stable and reliable throughout its use, but also provides excellent corrosion resistance and wear resistance. This allows chairs to maintain a like-new appearance and performance even after prolonged use.

## ( 二 ) Certification Introduction

- **BIFMA Certification:** Applicable to office furniture, ensuring its quality and safety meet international standards.
- **ANSI Certification:** Applicable to safety and durability standards in the North American market.
- **ISO 9001 Quality Management System Certification:** Ensures production processes comply with high-quality standards and procedures.

## ( 三 ) Advantages and Disadvantages of Base

### Advantages:

1. **Strong Stability:** The base is designed with a five-star configuration, distributing weight evenly across its five points, ingeniously blending principles of aesthetics and mechanics to form a stable support structure. This ensures the chair remains steady and stable in various settings, enhancing both functionality and dynamic balance.
2. **High Load Capacity:** Capable of supporting the weight of both the chair and its user, ensuring safe and robust seating support (Vane can support users weighing up to 400 pounds).
3. **Aesthetic Appeal:** Meticulously designed and treated surfaces enhance the product's visual appeal and overall quality perception.

### Disadvantages:

1. **Heavy Weight:** Due to its load-bearing requirements, some bases may be heavier, which can pose challenges during transportation and mobility.
2. **Higher Cost:** High-quality bases often employ durable materials and complex designs, resulting in higher production costs.
3. **Space Occupancy:** Larger designs may occupy more space, making them less suitable for environments with limited space.

## Wheels

Wheels, as an integral part of chairs, not only affect the mobility but also directly influence the comfort and stability of their use.

### • Vane Wheels Material

-Polyurethane (PU)

## • Vane Wheels Certification

-BIFMA Certification

-ANSI Certification

-ISO 9001 Quality Management System Certification

### Detailed Answers :

( 一 ) Analysis of commonly used office chair wheel materials:

1. Nylon: Nylon wheels are one of the most widely used materials for office chair wheels due to their moderate price, durability, and floor-friendliness. Nylon wheels have high hardness and abrasion resistance, capable of bearing weight and pressure while providing smooth movement and low noise.

2. Polyurethane (PU): PU wheels are a newer material known for excellent wear resistance, tear resistance, and elasticity. Compared to nylon wheels, PU wheels offer quieter operation during movement and better adaptability to different floor surfaces, minimizing scratch marks. Therefore, some high-end executive and massage office chairs use PU wheels to enhance user experience.

3. Rubber: Rubber wheels are typically used in situations requiring noise reduction and friction reduction, such as on carpets or wooden floors. Rubber wheels provide excellent noise reduction and shock absorption, protecting floors from damage while offering stable support. However, rubber wheels may not glide as smoothly on hard surfaces, limiting their application range.

( 二 ) Advantages and Disadvantages of Wheels

#### Advantages:

1. Convenient Mobility: Wheels allow chairs to move easily, enhancing work efficiency and flexibility.
2. Floor Protection: Protects floors from scratches or wear, extending their lifespan.
3. Quiet Operation: Designed to reduce noise during movement, enhancing user comfort.

#### Disadvantages:

1. Poor Stability: Some wheels may roll when not in use.
2. Space Requirements: Equipment with wheels requires sufficient space for movement, which may not be suitable for limited space or situations requiring fixed positioning.



### ( 三 ) Maintenance and Care

1. Regular Cleaning: Regularly clean the surface of the wheels to remove dust and dirt, ensuring smooth operation and reducing noise. Use a soft cloth or vacuum cleaner for cleaning.
2. Avoid Heavy Impact: Avoid heavy impacts or collisions that could damage the wheel structure or affect its performance.
3. Check Tightness: Periodically check the tightness of the connection between the wheels and the chair base. Tighten any loose connections promptly.