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Fuzion 5 PCS

Fuzion M1 Class Calibration Weight Set (5 PCS, 38g Total) User Manual

Model: 5 PCS Set

1. Introduction

This manual provides essential information for the proper use, maintenance, and care of your Fuzion M1 Class Calibration Weight Set. This set is designed to ensure the accuracy and reliability of your digital scales, including gram scales, pocket scales, jewelry scales, and milligram scales. Adhering to these instructions will help maintain the precision of both your weights and your measuring instruments.

2. Package Contents

Please inspect the package contents upon receipt to ensure all items are present and undamaged.

- **5 x M1 Class Calibration Weights:**
  - 1 gram (1g)
  - 2 grams (2g)
  - 5 grams (5g)
  - 10 grams (10g)
  - 20 grams (20g)

  Total weight: 38 grams
- **1 x Stainless Steel Tweezers:** For safe and precise handling of weights.



Image 2.1: The complete Fuzion 5-piece calibration weight set, showing individual weights from 1g to 20g.

3. Product Overview

The Fuzion Calibration Weight Set is manufactured to M1 Class standards, ensuring high accuracy for laboratory, industrial, and personal use. Each weight is crafted from corrosion-preventive chrome-plated stainless steel for durability and long-term precision.

- **M1 Class Accuracy:** Tested and certified to meet OIML standards for precision.
- **Material:** High-quality chrome-plated stainless steel for corrosion resistance and durability.
- **Construction:** CNC machine manufactured for consistent shape and precise mass.
- **Tweezers:** Included stainless steel tweezers prevent transfer of oils and dirt from hands, which can affect accuracy.



Image 3.1: Detailed view of a 10g calibration weight highlighting its key features and quality certifications.

4. Setup and Handling

Proper setup and handling are crucial for maintaining the accuracy of your calibration weights and the scales you calibrate.

4.1 Preparation

1. **Environment:** Ensure the calibration area is stable, free from drafts, vibrations, and significant temperature fluctuations.
2. **Cleanliness:** Make sure both the scale's weighing platform and the calibration weights are clean and free of dust or debris. Use a soft, lint-free cloth if necessary.
3. **Scale Readiness:** Place your digital scale on a flat, level surface and allow it to warm up for a few minutes if recommended by the scale's manufacturer.

4.2 Handling Weights

Always use the provided stainless steel tweezers to handle the calibration weights. This prevents:

- Transfer of skin oils, dirt, or moisture, which can alter the weight.
- Scratches or damage to the weight's surface.



Image 4.1: Demonstrating the correct method of handling calibration weights using tweezers.

5. Operating Instructions: Scale Calibration

The primary purpose of this weight set is to calibrate your digital scales. The exact calibration procedure varies by scale model. Always refer to your specific scale's instruction manual for detailed calibration steps. The general process is outlined below:

1. **Turn On Scale:** Power on your digital scale and allow it to stabilize. Ensure it reads 0.00g (or the appropriate zero reading for your scale).
2. **Enter Calibration Mode:** Most scales have a specific button (often labeled 'CAL' or 'MODE' held down) or sequence to enter calibration mode. Consult your scale's manual. The display will typically show 'CAL' or a flashing

weight value.

3. **Place Calibration Weight:** Once the scale prompts for a specific weight (e.g., '10.00g' or '20.00g'), carefully place the corresponding calibration weight from your Fuzion set onto the center of the weighing platform using the tweezers.
4. **Wait for Confirmation:** The scale will process the weight. Once calibration is complete, it will usually display 'PASS', 'END', or return to normal weighing mode.
5. **Remove Weight:** Carefully remove the calibration weight using tweezers.
6. **Test Accuracy:** To verify calibration, place a known weight (e.g., one of your other Fuzion weights) on the scale to confirm it reads accurately.



Image 5.1: A 10g weight on a digital scale confirming accurate measurement after calibration.



Image 5.2: Example of a scale's built-in instructions for weighing, taring, and calibration.



Image 5.3: An assortment of Fuzion weights shown with a digital scale, ready for use.

6. Maintenance and Storage

Proper maintenance and storage will prolong the life and accuracy of your calibration weights.

6.1 Cleaning

- If weights become dirty, gently wipe them with a soft, lint-free cloth.
- For stubborn marks, a very mild, non-abrasive cleaning solution can be applied to the cloth (not directly to the weight), followed by thorough drying with a clean, dry cloth.
- Avoid abrasive materials or harsh chemicals, as these can damage the chrome plating and alter the weight.

6.2 Storage

- Store the calibration weights in their original protective case or a similar secure container when not in use.
- Keep them in a dry, temperature-stable environment, away from direct sunlight, extreme temperatures, humidity, and

corrosive substances.

- Ensure they are stored in a way that prevents them from rubbing against each other or other objects, which could cause wear or damage.

7. Troubleshooting

If you encounter issues with your scale's accuracy after using the calibration weights, consider the following:

- **Inconsistent Readings:** Ensure the scale is on a stable, level surface, free from drafts or vibrations. Re-check the environment.
- **Incorrect Calibration:** Double-check that you followed your scale's specific calibration procedure precisely. Sometimes, a small deviation can lead to inaccurate results.
- **Dirty Weights/Platform:** Even a tiny speck of dust or a fingerprint can affect readings. Clean both the weights and the scale platform thoroughly.
- **Scale Malfunction:** If issues persist, the problem might be with the scale itself. Consult your scale's troubleshooting guide or manufacturer.

8. Specifications

Feature	Detail
Weight Set Composition	1g, 2g, 5g, 10g, 20g (5 pieces total)
Total Weight	38 grams
Accuracy Class	M1 Class (OIML compliant)
Material	Chrome-plated Stainless Steel
Included Accessory	Stainless Steel Tweezers
Package Dimensions	6.89 x 3.78 x 0.51 inches
Item Weight	1.76 ounces

9. Warranty and Support

Fuzion offers a **10-Year Warranty** for this calibration weight set. We are committed to providing high-quality products and excellent customer service. If you have any questions, concerns, or require assistance with your Fuzion calibration weights, please do not hesitate to contact our support team. We are always glad to help.
For support, please visit the official Fuzion website or contact your retailer.

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