



1-800-517-8431

5 Commonwealth Ave  
Woburn, MA 01801  
Phone 781-665-1400  
Toll Free 1-800-517-8431



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# CALIBRATION WEIGHTS

Ensuring your weighing is  
accurate and precise



**AND**  
A&D Weighing

# Calibration Weights

Calibration weights are designed in cast iron or stainless-steel. Weights are used to calibrate weighing equipment and manufactured and laboratory compared to a known standard. To maintain your weighing device accuracy and for Legal for Trade applications, it is important to use a reliable and certified test weight.

## Applications:

- Calibration Class I & II balance in accordance to Handbook 44
- Student laboratory use
- Rough weighing operations
- Tolerance testing
- Verification checks
- Calibration shift test & calibration adjustments
- Sensitivity testing

## Selecting Calibration Weights

### Materials & Features:

- Stainless steel polished finish
- Meets ASTM E617-19
- USP-41 compliant
- Nominal value marked on weight
- Serial Number applied to case

### Style Available:

- Type I design (one piece) for ASTM Class 0
- Type II design (screw-knob) for ASTM Class I-4 with sealing cavity for adjustment of material

|                                | Cast Iron  | Stainless Steel  |
|--------------------------------|--|--|
| Application Use                | Test industrial weighing devices, non-marked scales without class designation, check acceptable tolerance  | Test Class III scales and balances, non-classified scales, check acceptable tolerance                                  |
| Balance / Scale Classification | Class III / Non-designated   | Class III  |
| Marked for Consistency         | ○  | ✓  |
| Serial Number                  | ○  | Optional   |
| Approvals                      | NIST Handbook 44 and 105-1 specifications  | NIST Handbook 44 and 105-1 specifications, Class F tolerances  |
| Styles                         | <ul style="list-style-type: none"> <li>• Grip handle</li> <li>• Nesting slab</li> <li>• Slotted</li> </ul> | <ul style="list-style-type: none"> <li>• Cylindrical</li> <li>• Grip handle</li> <li>• Leaf</li> <li>• Dish</li> </ul> |
| Weight Class                   | <ul style="list-style-type: none"> <li>• ASTM Class 6 and 7</li> <li>• OIML Class M1 and M2</li> </ul>     | <ul style="list-style-type: none"> <li>• ASTM Class 5,6,7</li> </ul>   |

Most weights have a sealing cavity for adjustment, and the nominal value is marked on the test weight with an optional serial number stamp

# Stainless Steel



|                                | Electronic Balance Calibration Weights                       | Precision Laboratory Test Weights  |
|--------------------------------|--|--|
| Application Use                | Calibration Tolerance & Verification Checks                  | Calibration, Tolerance & Verification Checks   |
| Balance / Scale Classification | Class I, Class II  | Class I, Class II  |
| Marked for Consistency         | ✓  | *  |
| Serial Number                  | • Optional for class 2-4                                     | • Optional for Class 2-4   |
| Approvals                      | • ASTM E 617-13<br>• Density 7.84 g/cm <sup>3</sup> (303 SS) | • ASTM E 617-13<br>• Density 7.95 g/cm <sup>3</sup> (316 SS)   |
| Styles                         | • Grip handle<br>• Cylindrical<br>• Leaf                     | • Cylindrical<br>• Type 1 one piece construction<br>• Type 2 two piece construction (screw knob)<br>• Leaf |
| Weight Class                   | • ASTM Class 0-7   | • ASTM Class 0-4<br>• OIML Class E1, E2, F1, F2  |

**\*Precision Laboratory Test Weights**

ASTM Class 0 test weights are not individually marked with their weight value or individually serialized per ASTM E 617-13. Single-piece cylindrical test weights are Type I, ASTM Class 0 and OIML Class E1 and E2, and F1 and F2 with a one-piece construction. These weights have no added adjusting material. Type II designs are cylindrical weights with adjusting cavities.

## Test Weights and Configurations

A&D offers test weights as Individual weights, Cal-pal kits or Weight sets.



|           | Individual Weights  | Cal-Pal Weight Kits  | Weight Sets   |
|-----------|---|--|---|
| Includes: | <ul style="list-style-type: none"> <li>• Test weight: 1 piece</li> <li>• Vial or soft case</li> <li>• Cotton glove</li> </ul> | <ul style="list-style-type: none"> <li>• Test weights: 3 pieces</li> <li>• Vial or PVC hard case</li> <li>• Tweezer or Lifter</li> </ul> | <ul style="list-style-type: none"> <li>• Test weights: 9 to 21 pieces</li> <li>• Hard case (varies)</li> <li>• White glove &amp; Tweezer or Lifter</li> </ul> |

### Individual Weights

Class I ASTM 1-piece test weight with screw knob test weight screw knob with sealing cavity or leaf, includes vial or soft case and cotton glove.

## Cal-Pal Weight Kits

All cylindrical ASTM kits (excluding grip-handle weights) include their own protective hard case and glove set for safe handling.

## Weight Sets

Sets may be ordered in a 5-2-2-1 or a 5-3-2-1 configuration. For example, a set might include:

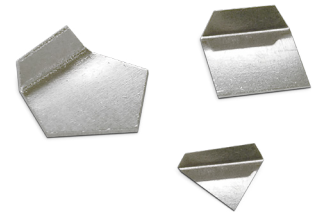
- (1) 50 g weight, (2) 20 g weights, and (1) 10 g weight, or
- (1) 50 g weight, (1) 30 g weight, (1) 20 g weight, and (1) 10 g weight.

OIML and ASTM test weight sets larger than 500 grams, or one pound, include a hardwood case with velvet-lined pockets. Test weight sets with the largest weight of 500 grams include a precision-machined polyvinyl, crush-resistant case.

Serial numbers are not stamped on polished or milligram weights. A test weight should be more accurate than the precision of the weighing device, and it is recommended that a test weight has an accuracy of one-third the weighing device readability.

# Product Configurations

With and without ISO 17025 Accredited Certificate of Calibration documentation



## Individual ASTM Weight Metric Kits

| Leaf   |         |        |                          |                          |                        |                              |
|--------|---------|--------|--------------------------|--------------------------|------------------------|------------------------------|
| Weight | Class   | Type   | Material                 | Includes                 | Part No. without Cert. | Part No. with ISO 17025 Cert |
| 1 mg   | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-1MG            | AD-1700-1MG-C                |
| 5 mg   | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-5MG            | AD-1700-5MG-C                |
| 10 mg  | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-10MG           | AD-1700-10MG-C               |
| 20 mg  | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-20MG           | AD-1700-20MG-C               |
| 50 mg  | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-50MG           | AD-1700-50MG-C               |
| 100 mg | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-100MG          | AD-1700-100MG-C              |
| 200 mg | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-200MG          | AD-1700-200MG-C              |
| 300 mg | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-300MG          | AD-1700-300MG-C              |
| 500 mg | Class I | Type I | Stainless Steel Polished | Vial, White Cotton Glove | AD-1700-500MG          | AD-1700-500MG-C              |





## Individual ASTM Weight Metric Kits

| Screw-Knob (sealing cavity for adjustment) |         |         |                          |                               |                        |                              |
|--|---------|---------|--------------------------|-------------------------------|------------------------|------------------------------|
| Weight                                     | Class   | Type    | Material                 | Includes                      | Part No. without Cert. | Part No. with ISO 17025 Cert |
| 1 g  | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-1G             | AD-1700-1G-C                 |
| 2 g  | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-2G             | AD-1700-2G-C                 |
| 5 g  | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-5G             | AD-1700-5G-C                 |
| 10 g                                       | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-10G            | AD-1700-10G-C                |
| 20 g                                       | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-20G            | AD-1700-20G-C                |
| 50 g                                       | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-50G            | AD-1700-50G-C                |
| 100 g                                      | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-100G           | AD-1700-100G-C               |
| 200 g                                      | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-200G           | AD-1700-200G-C               |
| 300 g                                      | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-300G           | AD-1700-300G-C               |
| 400 g                                      | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-400G           | AD-1700-400G-C               |
| 500 g                                      | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-500G           | AD-1700-500G-C               |
| 1 kg                                       | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-1KG            | AD-1700-1KG-C                |
| 2 kg                                       | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-2KG            | AD-1700-2KG-C                |
| 3 kg                                       | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-3KG            | AD-1700-3KG-C                |
| 4 kg                                       | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-4KG            | AD-1700-4KG-C                |
| 5 kg                                       | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-5KG            | AD-1700-5KG-C                |
| 10 kg                                      | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-10KG           | AD-1700-10KG-C               |
| 20 kg                                      | Class I | Type II | Stainless Steel Polished | Soft Case, White Cotton Glove | AD-1700-20KG           | AD-1700-20KG-C               |



## Cal-Pal ASTM Weight Kits

| Screw-Knob (sealing cavity for adjustment) |         |         |              |                              |  |  |
|--|---------|---------|--------------|------------------------------|--|--|
| 3 Essential Cal-Pal Kits                   | Class   | Type    | Material     | Part No. with ISO17925 Cert. | Micro, Semi, Analytical Balances   | Precision Toploading Balances            |
| 2 g, 200 mg, 1 mg,                         | Class 0 | Type II | SS Polished  | AD-2-200-1                   | BM-5D / BM-22  |  |
| 5 g, 500 mg, 1 mg                          | Class 0 | Type II | SS Polished  | AD-5-500-1                   | BM-5 / BM-20   |  |
| 20 g, 2 g, 20 mg                           | Class I | Type II | SS Polished  | AD-20-2-20                   | BM-20 / BM-22  |  |
| 100 g, 10 g, 20 mg                         | Class I | Type II | SS Polished  | AD-100-10-20                 | HR-100A/AZ, GH-120, GF & GX124A AE, EK-120i                                      |  |
| 100 g, 10 g, 200 mg                        | Class I | Type II | SS Polished  | AD-100-10-200                | HR-150AZ, EW-150i  | GF&GX-123A, FX/FZ-120i                   |
| 200 g, 20 g, 20 mg                         | Class I | Type II | SS Polished  | AD-200-20-20                 | BM-252, GH-252/202, GR-202   |  |
| 200 g, 20 g, 200 mg                        | Class I | Type II | SS Polished  | AD-200-20-200                | BM-252, GH-252/202, GR-202/200, GF&GX-224A AE, HR-250A/AZ                        |  |
| 200 g, 20 g, 2 g                           | Class I | Type II | SS Polished  | AD-200-20-2                  | BM-300/200, GH-300/200, GR-300/200, GF-224A/324A, GX-224A AE/324A AE, HR-250A/AZ | GF&GX-203A / 303A / 403A, FX/FZ-200/300i |
| 500 g, 50 g, 200 mg                        | Class I | Type II | SS Polished  | AD-500-50-200                | BM-500   | GF&GX-603A, FX/FZ-500i                   |
| 500 g, 50 g, 2 g                           | Class I | Type II | SS Polished  | AD-500-50-2                  | EK-610i  | GF&GX-603A, FX/FZ-500i                   |
| 1 kg, 100 g, 2 g                           | Class I | Type II | SS Polished  | AD-1-100-2                   |  | GF&GX-1003A / 1603A, FX/FZ-1200i         |
| 1 kg, 100 g, 20 g                          | Class I | Type II | SS Polished  | AD-1-100-20                  |  |  |
| 2 kg, 200 g, 2 g                           | Class I | Type II | SS Polished  | AD-2-200-2                   |  |  |
| 2 kg, 200 g, 20 g                          | Class I | Type II | SS Polished  | AD-2-200-20                  |  |  |
| 5 kg, 500 g, 2 g                           | Class I | Type II | SS Polished  | AD-5,500,2                   |  |  |
| 5 kg, 500 g, 20 g                          | Class I | Type II | SS Polished  | AD-5-500-20                  |  |  |
| 100 g, 10 g, 2 g                           | Class I | Type II | SS Polished  | AD-100-10-2                  | HR-100A/AZ, HR-150AZ, GH-120, EK-200/300/400i                                    |  |
| 500 g, 50 g, 20 mg,                        | Class I | Type II | SS Polished  | AD-500-50-20                 | BM-500   |  |
| 50 g, 5 g, 200 mg                          | Class I | Type II | SS Polished  | AD-50-5-200                  | HR-150AZ, EW-150i  |  |
| 50 g, 5 g, 2 g                             | Class I | Type II | SS Polished  | AD-50-5-2                    | HR-150AZ, EW-150i  |  |
| White gloves – white cotton                | N/A     | N/A     | White Cotton | AD-1700-11714                |  |  |



## ASTM Weight Sets 5-2-2-1 Configurations

### Combination of Leaf and Screw-Knob

| Piece Count | Weight        | Class   | Type      | Material                 | Includes   | Part No. without Cert. | Part No. with Cert |
|-------------|---------------|---------|-----------|--------------------------|--|------------------------|--------------------|
| 21          | 100 g - 1 mg  | Class I | Type II   | Stainless Steel Polished | Hard Case, Tweezer or Lifter, White Cotton Glove | AD-1800-1M             | AD-1800-1M-C       |
| 17          | 100 g - 10 mg | Class I | Type II   | Stainless Steel Polished | Hard Case, Tweezer or Lifter, White Cotton Glove | AD-1800-10M            | AD-1800-10M-C      |
| 9           | 100 g - 1 g   | Class I | Type II   | Stainless Steel Polished | Hard Case, Tweezer or Lifter, White Cotton Glove | AD-1800-1G             | AD-1800-1G-C       |
| 25          | 1 kg - 1 mg   | Class I | Type II   | Stainless Steel Polished | Hard Case, Tweezer or Lifter, White Cotton Glove | AD-1800-10K            | AD-1800-10K-C      |
| 13          | 1 kg - 1 g    | Class I | Type II   | Stainless Steel Polished | Hard Case, Tweezer or Lifter, White Cotton Glove | AD-1800-10G            | AD-1800-10G-C      |
| 28          | 5 kg - 1 mg   | Class 0 | Type I/II | Stainless Steel Polished | Hard Case, Tweezer or Lifter, White Cotton Glove | AD-1800-5M             | AD-1800-5M-C       |
| 16          | 5 kg - 1 g    | Class 0 | Type I/II | Stainless Steel Polished | Hard Case, Tweezer or Lifter, White Cotton Glove | AD-1800-5G             | AD-1800-5G-C       |