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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	<ul style="list-style-type: none"> <li>Optional for class 2-4</li> </ul>	<ul style="list-style-type: none"> <li>Optional for Class 2-4</li> </ul>
Approvals	<ul style="list-style-type: none"> <li>ASTM E 617-13</li> <li>Density 7.84 g/cm<sup>3</sup> (303 SS)</li> </ul>	<ul style="list-style-type: none"> <li>ASTM E 617-13</li> <li>Density 7.95 g/cm<sup>3</sup> (316 SS)</li> </ul>
Styles	<ul style="list-style-type: none"> <li>Grip handle</li> <li>Cylindrical</li> <li>Leaf</li> </ul>	<ul style="list-style-type: none"> <li>Cylindrical                             <ul style="list-style-type: none"> <li>Type 1 one piece construction</li> <li>Type 2 two piece construction (screw knob)</li> </ul> </li> <li>Leaf</li> </ul>
Weight Class	<ul style="list-style-type: none"> <li>ASTM Class 0-7</li> </ul>	<ul style="list-style-type: none"> <li>ASTM Class 0-4</li> <li>OIML Class E1, E2, F1, F2</li> </ul>

**\*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:

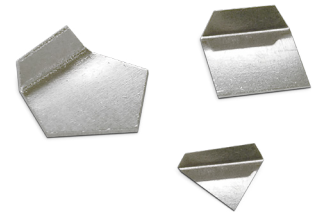
- (1) 50 g weight, (2) 20 g weights, and (1) 10 g weight, or
- (1) 50 g weight, (1) 30 g weight, (1) 20 g weight, and (1) 10 g weight.

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