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CALIBRATION WEIGHTS

Ensuring your weighing is accurate and precise

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 certifled 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	o	✔
Serial Number	o	Optional
Approvals	NIST Handbook 44 and 105-1 specifications	NIST Handbook 44 and 105-1 specifications, Class F tolerances
Styles	• Grip handle • Nesting slab • Slotted	• Cylindrical • Grip handle • Leaf • Dish
Weight Class	• ASTM Class 6 and 7 • OIML Class M1 and M2	• ASTM Class 5,6,7

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 • Density 7.84 g/cm3 (303 SS)	• ASTM E 617-13 • Density 7.95 g/cm3 (316 SS)

Styles	• Grip handle
	• Cylindrical
	• Leaf
		• Cylindrical
		  • Type 1 one piece construction
		  • Type 2 two piece construction (screw knob)
		• Leaf

Weight Class	• ASTM Class 0-7	• ASTM CLass 0-4 • 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:	• Test weight: 1 piece • Vial or soft case • Cotton glove	• Test weights: 3 pieces • Vial or PVC hard case • Tweezer or Lifter	• Test weights: 9 to 21 pieces • Hard case (varies) • White glove & Tweezer or Lifter

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.

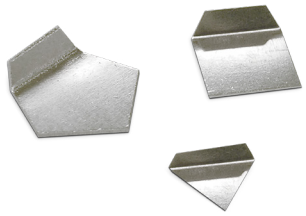
Weight Sets

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

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