



Assorted Calibration Weights - E1 class

Application

Weights intended to ensure traceability between national mass standards (with values derived from the International Prototype of the kilogram) and weights of class E2 and lower.

Class E1 weights or weight sets shall be accompanied by a calibration certificate.

Used as a primary reference for calibrating other reference standards and weights where the stability of the environment and careful handling are assured. Class E1 weights have no method of adjustment and are not suitable for general laboratory use. The uncertainty is guaranteed to be 1/3 the tolerance.

Calibration Weights

E1

Technical Specifications

Brand	NSTAR
Model	As shown in table
Class	OIML E1
Material	Austenitic stainless steel (Density $8.00 \pm 0.03 \text{ g/cm}^3$)
Cavity	Monoblock construction, No adjustable cavity
Surface	Highly polished mirror finish, [Rz < 0.5, Ra < 0.1 (μm)]
Magnetic Properties	Maximum magnetic polarization, $\mu_0 M$, (μT) < 2.5
Contents of Weights	1-2-5-10-20-50-100-200-500 g 1-2-5 kg
Marking	No denomination marking on test weights Distinguish mark is available on second weight
Standards	OIML R-111, 2004 (E)
Certificate	NABL accredited certificate - 2 years validity



2 kg



5 kg

Shape

Denomination

Cylindrical knob	1 g to 500 g
Cylindrical knob	1 kg to 5 kg

Dimensions

	1 g to 100 g	200 g	500 g to 1 kg	2 kg	5 kg
Storage case	Plastic Storage case				
Size*	38 x 38 x 55	44 x 44 x 64	65 x 65 x 98	77 x 77 x 123	101 x 101 x 166
Gross Weight	upto 130 g	230 g	upto 1.1 kg	2.4 kg	5.9 kg
External Packing	Corrugated boxes				
Number of package	1 pieces each				

* L x W x H in mm

Tolerance and Uncertainties

Model Number	Capacity	Tolerance# (mg)	Uncertainty* (mg)
NC-1-E1-ASS	1 g	0.010	0.0030
NC-2-E1-ASS	2 g	0.012	0.0040
NC-5-E1-ASS	5 g	0.016	0.0050
NC-10-E1-ASS	10 g	0.020	0.0066
NC-20-E1-ASS	20 g	0.025	0.0080
NC-50-E1-ASS	50 g	0.030	0.010
NC-0.1K-E1-ASS	100 g	0.050	0.016
NC-0.2K-E1-ASS	200 g	0.100	0.03
NC-0.5K-E1-ASS	500 g	0.250	0.08
NC-1K-E1-ASS	1 kg	0.500	0.16
NC-2K-E1-ASS	2 kg	1.000	0.32
NC-5K-E1-ASS	5 kg	2.500	0.82

Maximum Permissible Errors (MPE) as per OIML R-111

* Accredited CMC of Precimass LLP

NSTAR Corp is offering assured 1/3rd uncertainty to the MPE for OIML E1 class weights.



India

NSTAR CORP
34, Pelican Estate,
Road No. 5, Kathwada GIDC,
Kathwada, Ahmedabad - 382430,
Gujarat



www.calibrationweights.in



+91 7567 222 900



sales@calibrationweights.in