



Assorted Calibration Weights - E2 class

Application

Weights intended for use in the verification or calibration of class F1 weights and for use with weighing instruments of special accuracy class I. Class E2 weights or weight sets shall be accompanied by a calibration certificate.

Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances (number of counts between 100001 to 300000, $n = \text{max capacity} / d$).

Calibration Weights

E2

Technical Specifications

Brand	NSTAR
Model	As shown in table
Class	OIML E2
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 < 1, Ra < 0.2 (μm)]
Magnetic Properties	Maximum magnetic polarization, $\mu_0 M$, (μT) < 8
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 - 1 year 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-E2-ASS	1 g	0.030	0.0030
NC-2-E2-ASS	2 g	0.040	0.0040
NC-5-E2-ASS	5 g	0.050	0.0050
NC-10-E2-ASS	10 g	0.060	0.0066
NC-20-E2-ASS	20 g	0.080	0.0080
NC-50-E2-ASS	50 g	0.100	0.010
NC-0.1K-E2-ASS	100 g	0.160	0.016
NC-0.2K-E2-ASS	200 g	0.300	0.03
NC-0.5K-E2-ASS	500 g	0.800	0.08
NC-1K-E2-ASS	1 kg	1.600	0.16
NC-2K-E2-ASS	2 kg	3.000	0.32
NC-5K-E2-ASS	5 kg	8.000	0.82

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

* Accredited CMC of Precimass LLP (CC-3213)

NSTAR Corp is offering assured 1/3rd uncertainty to the MPE for OIML E2 class weights.



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