



Assorted Calibration Weights - F1 class

Application

Weights intended for use in the verification or calibration of class F2 weights and for use with weighing instruments of special accuracy class I and high accuracy class II.

Appropriate for calibrating high-precision balances
(number of counts between 30001 to 100000, $n = \text{max capacity} / d$).

Calibration Weights

F1

Technical Specifications

Brand	NSTAR
Model	As shown in table
Class	OIML F1
Material	Highgrade stainless steel (Density $7.95 \pm 0.03 \text{ g/cm}^3$)
Cavity	Monoblock construction, No adjustable cavity (upto 50 g) With adjustable cavity at bottom (100 g to 5 kg)
Surface	Highly polished mirror finish, $[Rz < 2, Ra < 0.4 (\mu\text{m})]$
Magnetic Properties	Maximum magnetic polarization, $\mu_0 M, (\mu\text{T}) < 25$
Contents of Weights	1-2-5-10-20-50-100-200-500 g 1-2-5 kg
Marking	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-F1-SS	1 g	0.100	0.0030
NC-2-F1-SS	2 g	0.120	0.0040
NC-5-F1-SS	5 g	0.160	0.0050
NC-10-F1-SS	10 g	0.200	0.0066
NC-20-F1-SS	20 g	0.250	0.0080
NC-50-F1-SS	50 g	0.300	0.0100
NC-0.1K-F1-SS	100 g	0.500	0.016
NC-0.2K-F1-SS	200 g	1.000	0.03
NC-0.5K-F1-SS	500 g	2.500	0.08
NC-1K-F1-SS	1 kg	5.000	0.16
NC-2K-F1-SS	2 kg	10.00	0.32
NC-5K-F1-SS	5 kg	25.00	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 F1 class weights.

India

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