



NC-001-0.2K-F1-SS

Calibration Weights Set - 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 Set

F1

Technical Specifications

Brand	NSTAR
Model	NC-001-0.2K-F1-SS
Class	OIML F1
Material	Highgrade stainless steel (Density $7.95 \pm 0.03 \text{ g/cm}^3$)
Cavity	Monoblock construction, No adjustable cavity
Surface	Highly polished mirror finish, [Rz < 2, Ra < 0.4 (μm)]
Magnetic Properties	Maximum magnetic polarization, $\mu_0 M$, (μT) < 25
Contents of Weights	1-2-2*-5-10-20-20*-50-100-200-200*-500 mg (12 pcs) 1-2-2*-5-10-20-20*-50-100-200-200* g (11 pcs)
Marking	Denomination marking on gram test weights Distinguish mark is available on second weight
Standards	OIML R-111, 2004 (E)
Certificate	NABL accredited certificate - 1 year validity



Shape

Denomination

Pentagon	500 mg, 50 mg, 5 mg
Square	200 mg, 20 mg, 2 mg
Triangle	100 mg, 10 mg, 1 mg
Cylindrical knob	1 g to 200 g

*Note : All milligram weights are in wire shape

Dimensions

Storage Case	Alluminium storage case with accessories
Weight Box Size	30 x 20 x 10 cm (L x W x H)
Net Weight	1.4 kg
Number of Package	1
Gross Weight	1.7 kg
Package Data	33 x 22 x 15 cm (L x W x H)
External Packing	Corrugated boxes



Tolerance and Uncertainties

Denominations	Tolerance# (mg)	Uncertainty* (mg)
1 mg	0.020	0.0010
2 mg	0.020	0.0010
5 mg	0.020	0.0010
10 mg	0.025	0.0010
20 mg	0.030	0.0010
50 mg	0.040	0.0013
100 mg	0.050	0.0016
200 mg	0.060	0.0020
500 mg	0.080	0.0026
1 g	0.100	0.0030
2 g	0.120	0.0040
5 g	0.160	0.0050
10 g	0.200	0.0066
20 g	0.250	0.0080
50 g	0.300	0.010
100 g	0.500	0.016
200 g	1.000	0.03

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 set.

India

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