



Milligram weights 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
Shape	Wire type
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
Magnetic Properties	Maximum magnetic polarization, $\mu_0 M, (\mu\text{T}) < 25$
Contents of Weights	1-2-5-10-20-50-100-200-500 mg
Marking	No denomination marking on test weights
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

Dimensions

Storage Case	Plastic storage case
Weight Box Size	40 x 40 x 55 mm (L x W x H)
Net Weight	upto 500 mg
Number of Package	1
Gross Weight	70 g
External Packing	Corrugated boxes



Tolerance and Uncertainties

Model	Capacity	Tolerance# (mg)	Uncertainty* (mg)
NC-001-F1-SS	1 mg	0.020	0.0010
NC-002-F1-SS	2 mg	0.020	0.0010
NC-005-F1-SS	5 mg	0.020	0.0010
NC-010-F1-SS	10 mg	0.025	0.0010
NC-020-F1-SS	20 mg	0.030	0.0010
NC-050-F1-SS	50 mg	0.040	0.0013
NC-100-F1-SS	100 mg	0.050	0.0016
NC-200-F1-SS	200 mg	0.060	0.0020
NC-500-F1-SS	500 mg	0.080	0.0026

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.

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