



**NC-20K-E2-ASS**

**Calibration Weight - 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 Weight

# E2

## Technical Specifications

Brand	NSTAR
Model	NC-20K-E2-ASS
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 ( $\mu\text{m}$ )]
Magnetic Properties	Maximum magnetic polarization, $\mu_0 M$ , ( $\mu\text{T}$ ) < 8
Contents of Weights	20 kg
Marking	No denomination marking on test weights
Standards	OIML R-111, 2004 (E)
Certificate	NABL accredited certificate - 1 year validity



## Shape

Cylindrical knob

## Denomination

20 kg

## Dimensions

Storage Case	Aluminium storage case
Weight Box Size	20 x 20 x 30 cm ( L x W x H )
Net Weight	22.5 kg
Number of Package	1
Gross Weight	26 kg
Package Data	26 x 26 x 36 cm ( L x W x H )
External Packing	Corrugated boxes

\* test weights and storage case are packed separately for logistics purpose.



\* weight lifting accessories are optional.

## Tolerance and Uncertainties

Denominations	Tolerance# (mg)	Uncertainty* (mg)
20 kg	30	3.16

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

\* Accredited CMC of Precimass LLP (CC-3213)

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

## India

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