

## **TABLE OF TOLERANCES**

**TABLE 1 - Maximum Permissible Errors for Weights ( $\pm$  in mg) as per OIML R111 - 1 Edition 2004 (E)**

| NOMINAL VALUE | CLASS - E <sub>1</sub> | CLASS - E <sub>2</sub> | CLASS - F <sub>1</sub> | CLASS - F <sub>2</sub> | CLASS - M <sub>1</sub> | CLASS - M <sub>2</sub> | CLASS - M <sub>3</sub> |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 1 mg          | 0.003                  | 0.006                  | 0.02                   | 0.06                   | 0.2                    | -                      | -                      |
| 2 mg          | 0.003                  | 0.006                  | 0.02                   | 0.06                   | 0.2                    | -                      | -                      |
| 5 mg          | 0.003                  | 0.006                  | 0.02                   | 0.06                   | 0.2                    | -                      | -                      |
| 10 mg         | 0.003                  | 0.008                  | 0.025                  | 0.08                   | 0.25                   | -                      | -                      |
| 20 mg         | 0.003                  | 0.01                   | 0.03                   | 0.1                    | 0.3                    | -                      | -                      |
| 50 mg         | 0.004                  | 0.012                  | 0.04                   | 0.12                   | 0.4                    | -                      | -                      |
| 100 mg        | 0.005                  | 0.016                  | 0.05                   | 0.16                   | 0.5                    | -                      | -                      |
| 200 mg        | 0.006                  | 0.02                   | 0.06                   | 0.2                    | 0.6                    | -                      | -                      |
| 500 mg        | 0.008                  | 0.025                  | 0.08                   | 0.25                   | 0.8                    | -                      | -                      |
| 1 g           | 0.01                   | 0.03                   | 0.1                    | 0.3                    | 1                      | -                      | -                      |
| 2 g           | 0.012                  | 0.04                   | 0.12                   | 0.4                    | 1.2                    | -                      | -                      |
| 5 g           | 0.016                  | 0.05                   | 0.16                   | 0.5                    | 1.6                    | -                      | -                      |
| 10 g          | 0.02                   | 0.06                   | 0.2                    | 0.6                    | 2                      | -                      | -                      |
| 20 g          | 0.025                  | 0.08                   | 0.25                   | 0.8                    | 2.5                    | -                      | -                      |
| 50 g          | 0.03                   | 0.1                    | 0.3                    | 1                      | 3                      | 10                     | 30                     |
| 100 g         | 0.05                   | 0.16                   | 0.5                    | 1.6                    | 5                      | 16                     | 50                     |
| 200 g         | 0.1                    | 0.3                    | 1                      | 3                      | 10                     | 30                     | 100                    |
| 500 g         | 0.25                   | 0.8                    | 2.5                    | 8                      | 25                     | 80                     | 250                    |
| 1 kg          | 0.5                    | 1.6                    | 5                      | 16                     | 50                     | 160                    | 500                    |
| 2 kg          | 1                      | 3                      | 10                     | 30                     | 100                    | 300                    | 1000                   |
| 5 kg          | 2.5                    | 8                      | 25                     | 80                     | 250                    | 800                    | 2500                   |
| 10 kg         | 5                      | 16                     | 50                     | 160                    | 500                    | 1600                   | 5000                   |
| 20 kg         | 10                     | 30                     | 100                    | 300                    | 1000                   | 3000                   | 10000                  |
| 50 kg         | 25                     | 80                     | 250                    | 800                    | 2500                   | 8000                   | 25000                  |
| 100 kg        | -                      | 160                    | 500                    | 1600                   | 5000                   | 16000                  | 50000                  |
| 200 kg        | -                      | 300                    | 1000                   | 3000                   | 10000                  | 30000                  | 100000                 |
| 500 kg        | -                      | 800                    | 2500                   | 8000                   | 25000                  | 80000                  | 250000                 |
| 1000 kg       | -                      | 1600                   | 5000                   | 16000                  | 50000                  | 160000                 | 500000                 |

**TABLE 2 - A Possible Selection Table of Weights for Calibration of Weighing Balances**

| Capacity    | 10 g | 1 g | 100 mg | 10 mg | 1 mg | 0.1 mg | <0.1 mg |
|-------------|------|-----|--------|-------|------|--------|---------|
| Upto 50 g   | -    | -   | -      | M1    | F2   | E2     | E1      |
| Upto 100 g  | -    | -   | -      | M1    | F1   | E1     | E1      |
| Upto 500 g  | -    | -   | M1     | F2    | E2   | -      | -       |
| Upto 1 kg   | -    | M1  | M1     | F1    | E1   | -      | -       |
| Upto 5 kg   | -    | M1  | F2     | E2    | -    | -      | -       |
| Upto 10 kg  | -    | M1  | F1     | E1    | -    | -      | -       |
| Upto 50 kg  | M1   | F2  | E2     | -     | -    | -      | -       |
| Upto 100 kg | M1   | F1  | -      | -     | -    | -      | -       |

**OUR FINEST WEIGHTS FOR YOUR FINEST WEIGHING**