



OIML R 79

Annex A

Units of measurement and symbols (**Mandatory**)

OIML R 79

Annex A

Units of measurement

- Shall be expressed in either **words** or **symbols**
- Table A.1 provides the **unit** and the appropriate **symbol** for measurement
- Table A.2 indicates the **correct unit** within Table A.1 to use dependant on the type of measurement and the quantity of product

Annex A Table A.1 – Units of measurement

| Unit | Symbol | Unit | Symbol |
|------------|----------|-------------------|-----------------|
| milligram | mg | centimetre | cm |
| gram | g | metre | m |
| kilogram | kg | square millimetre | mm ² |
| tonne | t | square centimetre | cm ² |
| millilitre | mL or ml | square decimetre | dm ² |
| centilitre | cL or cl | square metre | m ² |
| litre | L or l | cubic centimetre | cm ³ |
| micrometre | µm | cubic decimetre | dm ³ |
| millimetre | mm | cubic metre | m ³ |

OIML R 79

Annex A

Units of measurement

- Neither a **full stop** nor the letter “**s**” should be used after any of the symbols
- The alternative symbol for the litre, **L**, is used in order to avoid the risk of confusion of the letter “l” and the number “1”

OIML R 79

Annex A

Units of measurement

- A **single space** between the number and the unit of measurement must be used (i.e. 12 ml or 45 g)
- **Other phrases** may be used in connection with the quantity declaration and may appear **before** or **after** the quantity declaration...

OIML R 79

Annex A

Units of measurement

- | | |
|--------------|----------------|
| • “content” | “net” |
| • “contents” | “net mass” |
| • “quantity” | “net weight” |
| • “mass” | “net contents” |
| • “weight” | “net quantity” |



OIML R 79

Annex A

Units of measurement

Ambiguous terms **shall not** be used:

- “approximately”
- “standard”
- “when packed”

Annex A Table A.2 – Choice of units

| Type of measurement | Quantity of product (q) | Units |
|-------------------------|---|--|
| Volume (liquids) | $q < 1000 \text{ mL}$ $1000 \text{ mL} \leq q$ | mL (ml) L (l) |
| Volume - cubic (solids) | $q \leq 1000 \text{ cm}^3$ (1 dm ³) $1 \text{ dm}^3 < q < 1000 \text{ dm}^3$ $1000 \text{ dm}^3 \leq q$ | cm ³ , mL (ml) dm ³ , L (l) m ³ |
| Mass | $q < 1 \text{ g}$ $1 \text{ g} \leq q < 1000 \text{ g}$ $1000 \text{ g} \leq q$ | mg g kg or t |

Annex A Table 2 – Choice of units (continued)

| Type of measurement | Quantity of product (q) | Units |
|---------------------|---|---|
| Length | $q < 1 \text{ mm}$ $1 \text{ mm} \leq q < 100 \text{ cm}$ $100 \text{ cm} \leq q$ | μm or mm mm or cm m |
| Area | $q < 100 \text{ cm}^2$ (1 dm^2) $1 \text{ dm}^2 \leq q < 100 \text{ dm}^2$ (1 m^2) $1 \text{ m}^2 \leq q$ | mm^2 or cm^2 dm^2 m^2 |



OIML R 79

Annex A

Units of measurement

Complete quiz 1, 2 & 3