

CLASSIFICATION OF SERVICES IN MASS AND RELATED QUANTITIES

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METROLOGY AREA: MASS AND RELATED QUANTITIES

BRANCH: MASS

1. **Mass**
 - 1.1 **Mass standard**
 - 1.1.1 Mass standard¹: *mass standard*

BRANCH: DENSITY

2. **Density**
 - 2.1 **Density of solid**
 - 2.1.1 Density of solid: *solid density artefact*
 - 2.1.2 Volume of solid: *solid artefact*
 - 2.2 **Density of liquid**
 - 2.2.1 Density of liquid: *density measuring device, standard volume vessel*

BRANCH: PRESSURE

3. **Pressure**
 - 3.1 **Absolute pressure**
 - 3.1.1 Gas medium: *pressure measuring device, standard pressure generator, vacuum gauge, pressure gauge, digital piston manometer, barometer, pressure balance*
 - 3.1.2 Liquid medium: *pressure measuring device, standard pressure generator, pressure gauge, pressure balance*
 - 3.2 **Gauge pressure**
 - 3.2.1 Gas medium: *pressure measuring device, standard pressure generator, pressure gauge, digital piston manometer, manometer, pressure balance*
 - 3.2.2 Liquid medium: *pressure measuring device, standard pressure generator, pressure gauge, pressure balance, pressure multiplier*
 - 3.3 **Differential pressure**
 - 3.3.1 Gas medium: *pressure measuring device, standard pressure generator, pressure gauge, digital piston manometer, manometer, pressure balance, pressure divider*
 - 3.3.2 Liquid medium: *pressure measuring device, standard pressure generator, pressure gauge, pressure balance*
 - 3.4 **Dynamic pressure**
 - 3.4.1 Gas medium: *pressure measuring device, standard pressure generator, pressure gauge*
 - 3.4.2 Liquid medium: *pressure measuring device, standard pressure generator, pressure gauge*

BRANCH: FORCE

4. **Force**
 - 4.1 **Tension**
 - 4.1.1 Tension: *force measuring device*
 - 4.2 **Compression**
 - 4.2.1 Compression: *force measuring device*
 - 4.3 **Tension and compression**
 - 4.3.1 Tension and compression: *force measuring device*

¹ The instrument or artefact is indicated in italic characters for each service.

BRANCH: TORQUE, VISCOSITY, HARDNESS AND GRAVITY

- 5. **Torque**
 - 5.1 **Torque**
 - 5.1.1 Torque: *torque measuring device*

- 6. **Viscosity**
 - 6.1 **Certified Newtonian reference liquids**
 - 6.1.1 Certified Newtonian reference liquids
 - 6.2 **Capillary viscometers**
 - 6.2.1 Capillary viscometers
 - 6.3 **Viscosity measurement of Newtonian liquids**
 - 6.3.1 Viscosity measurement of Newtonian liquids

- 7. **Hardness**
 - 7.1 **Hardness**
 - 7.1.1 Hardness

- 8. **Gravity**
 - 8.1 **Gravity**
 - 8.1.1 Gravity

BRANCH: FLUID FLOW

- 9. **Fluid Flow**
 - 9.1 **Volume liquid flow rate**
 - 9.1.1 Volume water flow rate
 - 9.1.2 Volume hydrocarbon flow rate
 - 9.2 **Volume gas flow rate**
 - 9.2.1 Volume gas flow rate
 - 9.3 **Mass liquid flow rate**
 - 9.3.1 Mass water flow rate
 - 9.3.2 Mass hydrocarbon flow rate
 - 9.4 **Mass gas flow rate**
 - 9.4.1 Mass gas flow rate
 - 9.5 **Volume of liquid**
 - 9.5.1 Volume of liquid
 - 9.6 **Mass of liquid**
 - 9.6.1 Mass of liquid
 - 9.7 **Flow speed**
 - 9.7.1 Gas flow speed
 - 9.7.2 Liquid flow speed
 - 9.8 **Multiphase flow**
 - 9.8.1 Multiphase flow
 - 9.9 **Heat flow rate**
 - 9.9.1 Heat flow rate