

CLASSIFICATION OF SERVICES IN MASS AND RELATED QUANTITIES

2 August 2019

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 measuring device
 - 2.2.2 Density of liquid
 - 2.3 **Refractive index of liquid**
 - 2.3.1 Refractive index of liquid

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*

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

4.3 Tension and compression

4.3.1 Tension and compression: *force measuring device*

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

9.10 Fluid flow

9.10.1 Liquid flow

9.10.2 Gas flow

9.10.3 Quantity of fluid

9.10.4 Flow speed

9.10.5 Multiphase flow

9.10.6 Heat flow

Fluid flow: The CMC classification over scored in grey was replaced by the classification as indicated in 9.10 in the CCM decision of 20 May 2019. However, until all CMCs have been updated to the new classification scheme, both classifications will co-exist.