

0.15 mm and 10 mm, more preferably comprised between 0.5 mm and 5 mm.

5 7. A kit of capsules (11) according to any of the preceding claims, wherein said deformable portion is oriented such that it deforms along an axis D which is substantially parallel to the vertical axis of said capsule.

10 8. A kit of capsules (11) according to any of the preceding claims, wherein the deformable portion is deformable by action of a force comprised between 0.2 N and 500 N, preferably between 20N and 300 N.

15 9. A food preparation system comprising a kit of at least two ingredient capsules (11) according to any of the preceding claims 1 to 10, and a food preparation machine (1) adapted to cooperate functionally with said capsules, said machine comprising a cavity for alternatively receiving said capsules such that a food product can be prepared in the latter by injection of a fluid from said machine into said capsule, **characterized in that** said cavity comprises a force sensitive portion
20 adapted to cooperate with the deformable portion of each capsule to transmit operational data from said capsule to said machine, said data being function of the deformation properties of said deformable portion.

25 10. A food preparation system according to claim 9, wherein said force sensitive portion is linked to a control board of said machine, such that cooperation between said force sensitive portion and said capsule deformable portion is able to trigger an operation within said

machine when the capsule deformable portion transmits a mechanical deformation to said force sensitive portion, said operation being recognition switching said machine on or off, and/or setting a food preparation parameter comprised within the list of, but not limited to: volume, temperature, and/or viscosity of the food to be dispensed, pressure of the fluid injected within the capsule, and/or infusion/mixing time.

11. A food preparation system according to claims 9 or 10, wherein said force sensitive portion is a pressure sensor connected to an electrical switch.

12. A food preparation system according to any of the preceding claims 9 to 11, wherein said food product is a liquid or semi-liquid product prepared within the capsule by injecting a fluid to be mixed with the encapsulated ingredient, at a pressure comprised between 0.5 and 30 bar, preferably comprised between 1 and 20 bar, more preferably a pressure comprised between 2 and 15 bar.