

## High Shear coating with fat

The Henschel high intensity mixer is a piece of equipment that can be used in several ways. It can be used for the intense mixing of powders, the incorporation/dispersion of liquids, heating/coating of powders as well as for the granulation of powders.

This batch machine has a capacity of about 600 litres and is fitted with a jacketed wall so that the contents can be cooled or heated to whatever the requirement might be. Due to the high shear forces within the machine the liquids or fats can be incorporated in such a way that agglomeration of powders is possible. The mixing speed is variable and this offers the possibility to heat products with a relatively low melting point up to its softening/melting point. Depending on

the intensity and on the characteristics of the product a coating can be applied or a granule can be produced.

The granule is created by sticking the different individual components together. Depending on the intensity of the mixing process the density of the granule will increase. Typically the density will be somewhere in between the density of a compacted and an agglomerated granule. The shape will be more rounded and less angular than that produced via the compaction route.

The granule will also be less porous than a granule produced via the fluid bed technology.

Are you interested in further details, please do not hesitate to contact us.

