

Homogeneity in material synthesis and processing

Freeze granulation, a powerful preparation tool for superior powder processing or material synthesis.

Freeze granulation ensures high-quality granules with homogeneous distribution of all present material constituents.

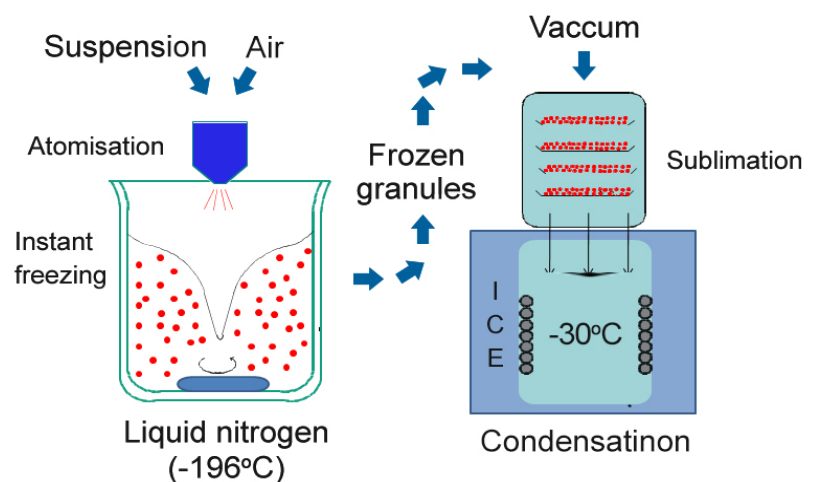


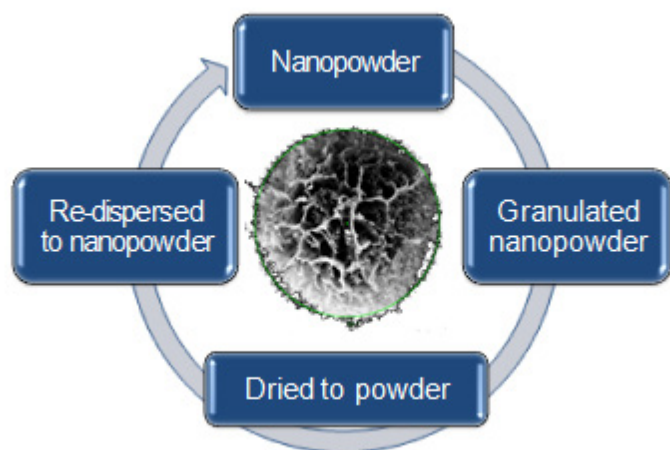
Instant freezing of sprayed suspension drops and subsequent freeze-drying preserve homogeneity. No migration, weak inter-particle bonding and minimum oxidation of metals or non-oxides.

Freeze granulation provides spherical free-flowing granules without cavities in the size range of 20-500 μm .

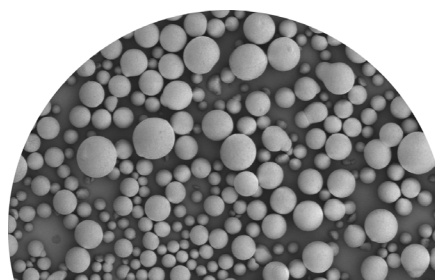
Small experimental (50-100 ml slip) as well as larger production batches can be processed with equal granule properties and high yield.

Spray freezing → → → → Freeze drying



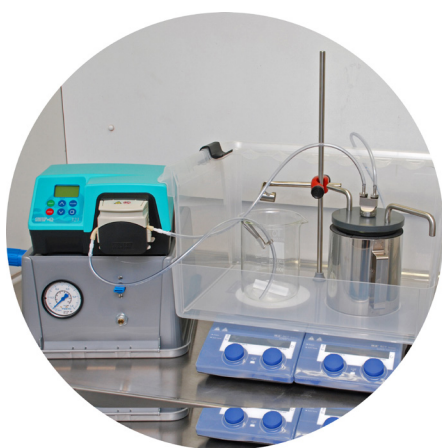


Freeze granulation provides granules with nano powders, easy to re-dispersed in a liquid or dis-integrate at pressing.



Equipment

PowderPro AB provides equipment for freeze granulation in two versions, LS-2 and LS-6 with a maximum granulation capacity of 2 or 6 litres slurry per hour respectively. Possibilities to process up to 20 litres per hour exists with the PS-20 model to be customized upon request. We also provide the freeze dryer GT-2 with trays.



LS-2



PS-20



GT-2