



## CONTINUOUS PULSED POWDER SYNTHESIS

### **Glatt ProAPP®**

- » Very uniform particles
- » Suitable for various materials
- » Joint process and material development
- » Easy and fast scale-up
- » Various capacities available
- » Set-up and installation

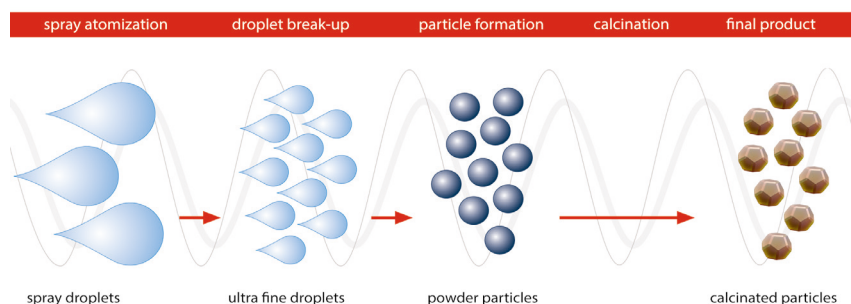
## Glatt ProAPP® – CONTINUOUS PULSED POWDER SYNTHESIS

*Quick and easy set-up of process parameters to speed up material and process development.*

### Processes improvement by:

- » dedicated design for powder synthesis in extremely homogenous conditions
- » flexible adoption of process parameters to your product requirements
- » high flexibility of starting materials (solution, slurry or solid)
- » particle synthesis and coating / drying in one step possible

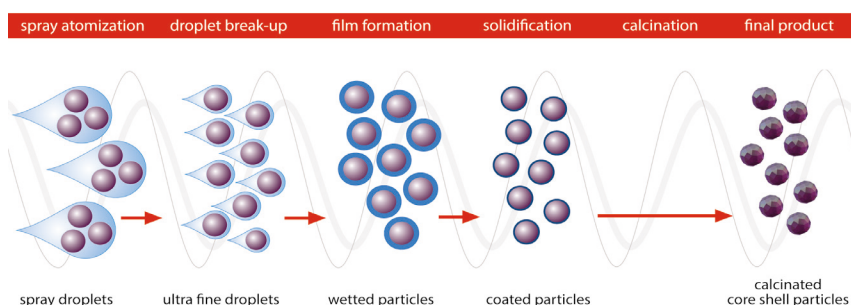
### Spray Calcination with Glatt Powder Synthesis



### You will benefit from:

- » extensive range of applicable starting materials (metall salts solutions or slurries, silica, ceramic pre-cursors, battery materials, pigments, etc.)
- » unique thermodynamic conditions
- » extremely rapid mass / heat transfer
- » very homogeneous reaction conditions
- » narrow size distributions
- » no hard aggregation

### Coating with Glatt Powder Synthesis



Glatt ProAPP® Lab, 1300 °C option



Size (examples)	Glatt ProAPP® Lab	Glatt ProAPP® 500
Process	Glatt Pulsed Powder Synthesis	
Installed heating power	15 kW (max. 70 kW on demand)	500 kW
Treating temperature	200 - 900 °C (max. 1300 on demand)	
Pulsation	10 - 300 Hz, 0 - 50 mbar	
Retention time	0.1 – 1 s	
Capacity	100 g/h - 300 t/a (higher capacities on demand)	
Design	oxidizing or inert conditions, stainless steel, cassette filter	
Delivery	complete delivery, ready for synthesis	