

CORE PELLETS															
DRUG LAYERED CORE PELLETS					MATRIX CORE PELLETS										
structure of · core pellets · coated pellets					500 µm										
Glatt Technology					500 µm										
process mode		batch		batch		batch		batch / continuous							
solid starting material		starter pellets ≥ 100 µm		starter pellets ≥ 100 µm		microcrystalline cellulose powder API etc.		no							
processing of API/coating liquid solvent(s)		from a liquid (solution, suspension, emulsion, melt) water, organic solvent(s)		as powder		as powder		from a liquid (solution, suspension, emulsion, melt) water, organic solvent(s)							
API dosage		strength/drug load		strength/drug load		strength/drug load		strength/drug load							
low		• • • • ~ 0,01 - 10 %		na ~ 0,01 - 10 %		• • • ~ 0,01 - 10 %		• • • ~ 0,01 - 10 %							
medium		• • • • ~ 10 - 50 %		• • • ~ 10 - 50 %		• • • ~ 10 - 50 %		• • • ~ 10 - 50 %							
high		• • • • ~ 50 - 80 %		• • • • ~ 50 - 80 %		• • • ~ 50 - 80 %		• • • • ~ 50 - 80 %							
very high		na ~ 80 - 100 %		na ~ 80 - 100 %		na ~ 80 - 100 %		na ~ 80 - 100 %							
properties of API		chemically stable in water, organic solvents		sensitive to moisture		chemically stable in water, organic solvents		chemically stable in water, organic solvents							
smallest pellet size achievable		~ 150 - 400 µm micropellets possible		~ 300 - 400 µm micropellets possible		~ 150 - 400 µm micropellets possible		> 700 µm micropellets NOT possible							
comment		preferred technology for drug layering with chemically stable APIs		preferred technology for medium / high dosed moisture sensitive APIs		high impact of physico-chemical properties of API on the process quality (sticking of wetted API)		usual drug load: 90 - 95% preferred technology for high drug loaded micropellets							
high potent/ containment feasibility		smart high potent processing approach						smart high potent processing approach							
COATED PELLETS					500 µm										
coating liquid:					Wurster (bottomspray)										
solvents:					batch										
coating liquid:					coating liquid: · solution · dispersion · melt										
solvents:					· water · organic solvent(s)										
coated micropellets possible					~ 200 - 500 µm coated micropellets possible										
preferred technology for all coating applications · controlled drug release · taste masking · seal coating · pH dependent coating · immediate release top coat					preferred technology for all coating applications · controlled drug release · taste masking · seal coating · pH dependent coating · immediate release top coat										
smart high potent processing approach					smart high potent processing approach										