ADV. NCE DESIGN PRILLING BUCKET

Stamicarbon's high quality prilling bucket design

Stamicarbon B.V. Mercator 3 - 6135 KW Sittard, The Netherlands. P.O. Box 53 - 6160 AB Geleen, The Netherlands.

communication@stamicarbon.com www.stamicarbon.com

The innovation & license company of Maire Tecnimont.



The innovation & license company of Maire Tecnimont.





ADV. NCE DESIGN PRILLING BUCKET

The challenge

To produce reliable, uniform and high quality prills within a steady operation requiring the minimal amount of necessary cleaning of the prilling bucket, whilst still ensuring its long lifespan.

Stamicarbon's solution

Stamicarbon offers a unique proprietary prilling bucket design, produced of Stainless steel to minimize corrosion for longevity. The bucket is designed as such that prills are formed uniformly within the operating range and capacity for the ideal particle size distribution. The spreading of melt droplets/prills in the tower is designed for optimal cooling and low prill temperature when collected at the bottom of the prilling tower. Stamicarbon's prilling bucket provides a typical granulometry of 97.5 % between 1-2.4 mm.

Benefits:

- Ideal size distribution
- Uniform prill distribution over the total prilli tower area enabling better heat transfer between the falling prills and the air flow
 Uniformly-sized prills
- Low dust formatio
- Designed for low prill temperature
- Suitable for large and small plant capacities
- The prilling bucket is tailor-made according to your prilling tower performance requirements and the desired product quality you want to proof

The most important step in prilling is the formation of the liquid droplets before they are cooled, solidified and sub-cooled. The way the droplets are formed determines whether the plant produces the required, uniform, round product with a desired size distribution. The spinning bucket prill head, determines the average particle size of the prills and its design is critical.



